

## Pantheon Report

Generated at 2019-10-03 22:37:08 (UTC).

Data path: GCE Iowa on `ens4` (*remote*) → GCE London on `ens4` (*local*).

Repeated the test of 24 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

### System info:

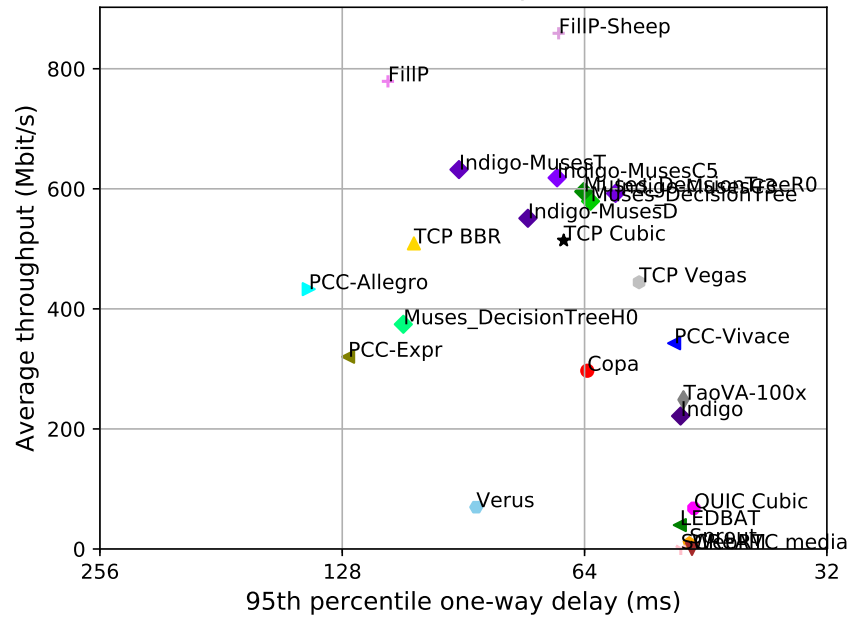
```
Linux 4.15.0-1044-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

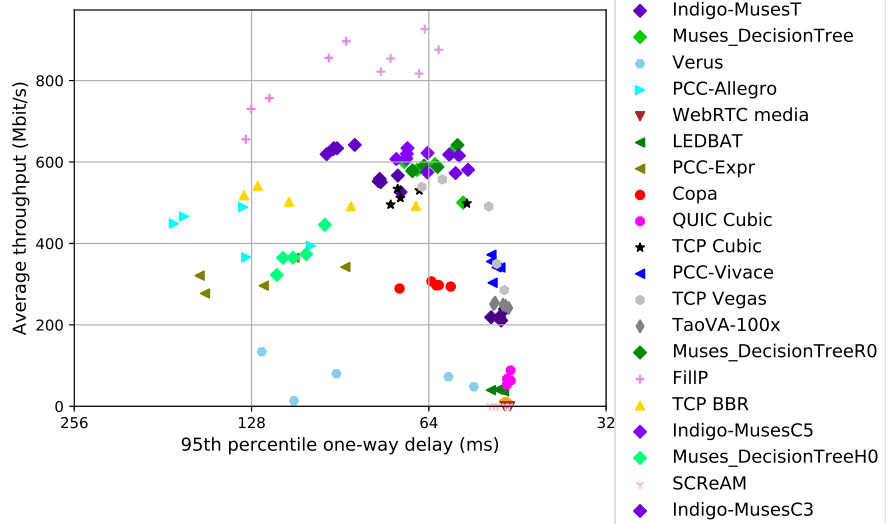
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
```

third\_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4  
third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from GCE Iowa to GCE London, 5 runs of 30s each per scheme  
(mean of all runs by scheme)



test from GCE Iowa to GCE London, 5 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	509.07	104.28	0.44
Copa	5	296.94	63.50	0.34
TCP Cubic	5	513.88	67.94	0.36
FillP	5	779.02	112.31	1.49
FillP-Sheep	5	859.07	68.92	0.41
Indigo	4	221.49	48.63	0.34
Indigo-MusesC3	5	592.34	58.58	0.39
Indigo-MusesC5	5	618.34	69.23	0.37
Indigo-MusesD	5	550.90	75.27	0.34
Indigo-MusesT	5	632.04	91.66	0.43
LEDBAT	5	39.83	48.74	0.53
Muses_DecisionTree	5	579.31	62.92	0.36
Muses_DecisionTreeH0	5	374.31	107.48	0.39
Muses_DecisionTreeR0	5	595.45	64.15	0.36
PCC-Allegro	5	432.87	140.87	2.33
PCC-Expr	5	320.22	125.88	1.38
QUIC Cubic	4	67.88	46.81	0.49
SCReAM	5	0.22	48.60	0.26
Sprout	5	9.67	47.42	0.33
TaoVA-100x	5	248.68	48.23	0.32
TCP Vegas	5	444.32	54.76	0.30
Verus	5	69.68	87.24	0.15
PCC-Vivace	5	342.74	49.54	0.38
WebRTC media	2	0.05	47.07	0.00

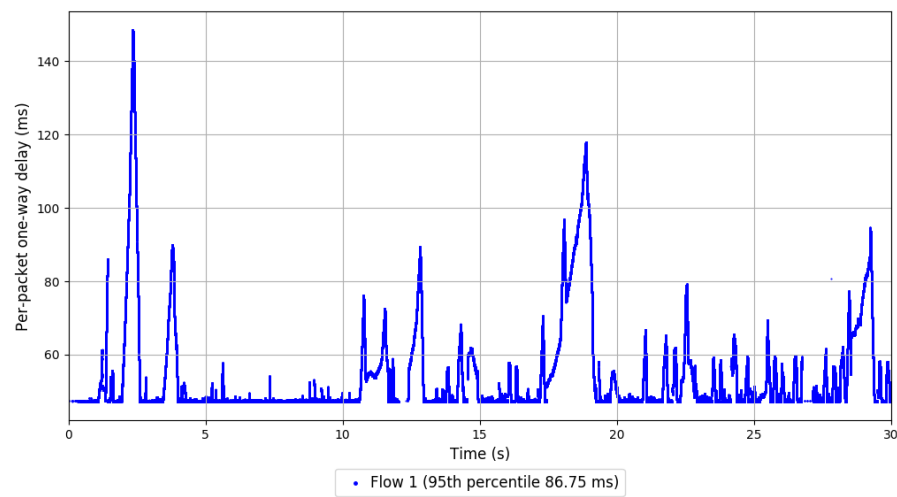
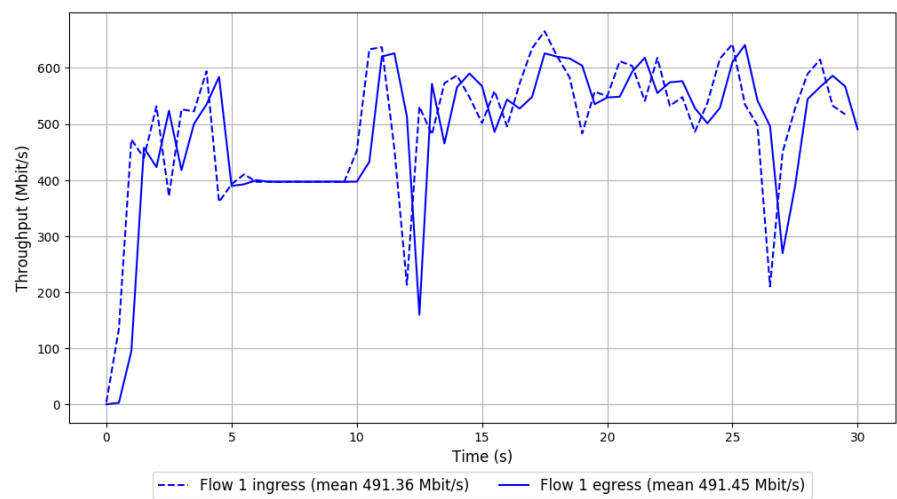


Run 1: Statistics of TCP BBR

Start at: 2019-10-03 17:31:50  
End at: 2019-10-03 17:32:20  
Local clock offset: -0.049 ms  
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2019-10-03 20:37:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 491.45 Mbit/s  
95th percentile per-packet one-way delay: 86.748 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 491.45 Mbit/s  
95th percentile per-packet one-way delay: 86.748 ms  
Loss rate: 0.30%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-10-03 18:06:33

End at: 2019-10-03 18:07:03

Local clock offset: -0.002 ms

Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2019-10-03 20:37:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 541.16 Mbit/s

95th percentile per-packet one-way delay: 124.959 ms

Loss rate: 0.64%

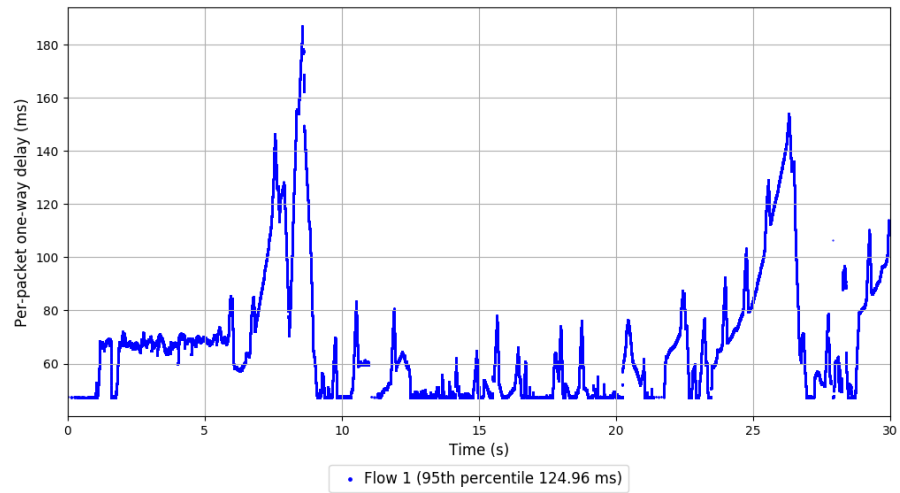
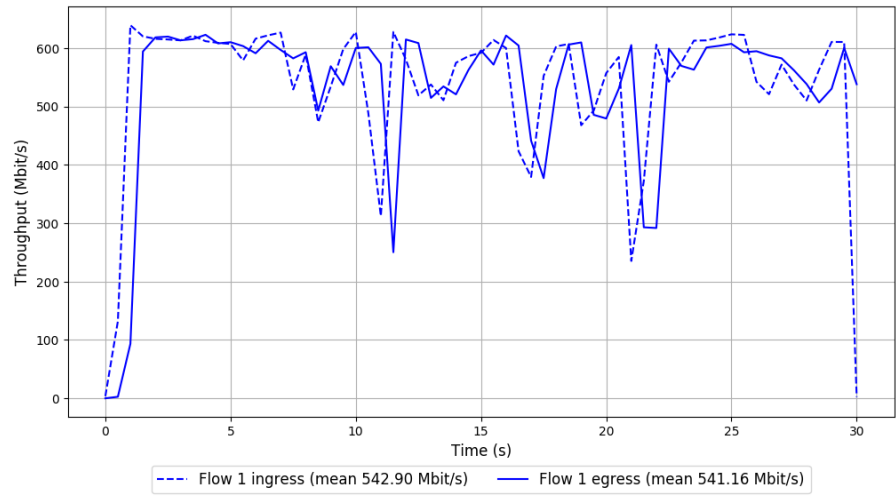
-- Flow 1:

Average throughput: 541.16 Mbit/s

95th percentile per-packet one-way delay: 124.959 ms

Loss rate: 0.64%

## Run 2: Report of TCP BBR — Data Link

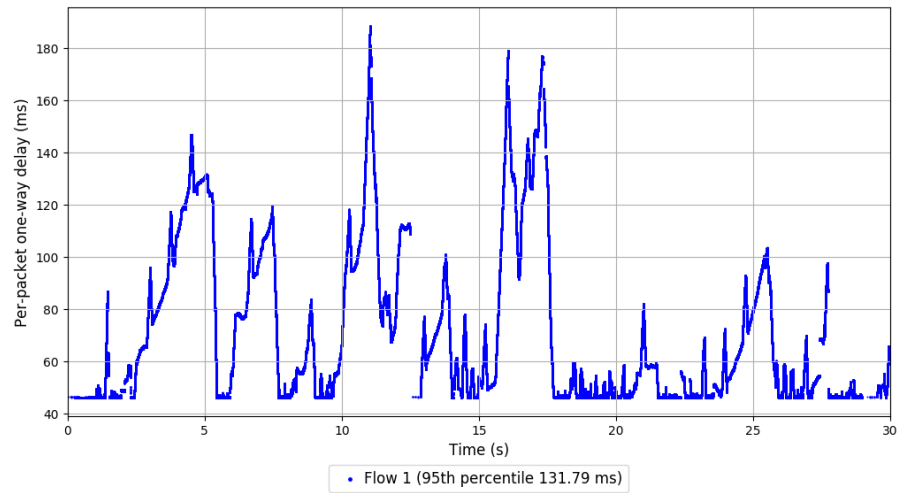
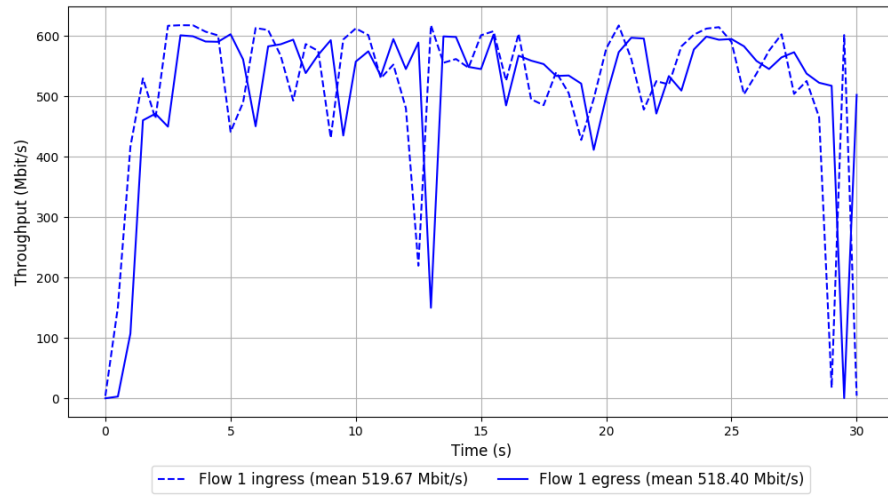


Run 3: Statistics of TCP BBR

Start at: 2019-10-03 18:41:25  
End at: 2019-10-03 18:41:55  
Local clock offset: -0.427 ms  
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2019-10-03 20:37:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 518.40 Mbit/s  
95th percentile per-packet one-way delay: 131.793 ms  
Loss rate: 0.56%  
-- Flow 1:  
Average throughput: 518.40 Mbit/s  
95th percentile per-packet one-way delay: 131.793 ms  
Loss rate: 0.56%

### Run 3: Report of TCP BBR — Data Link

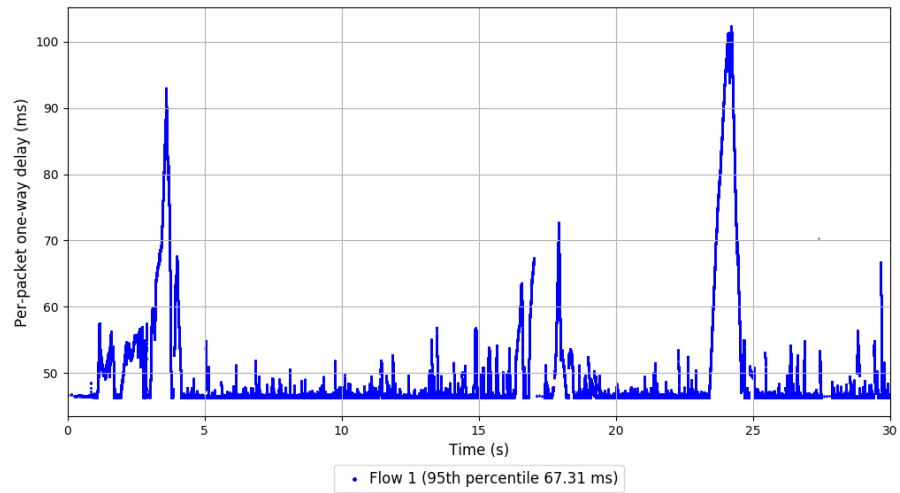
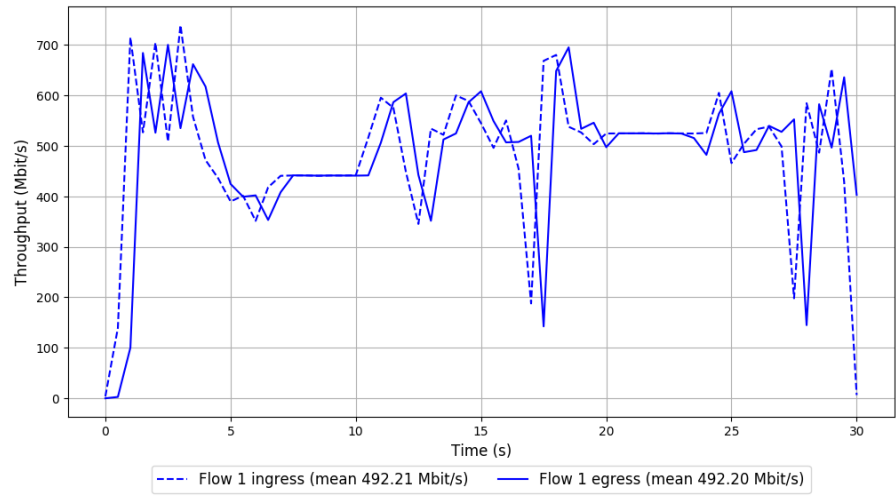


Run 4: Statistics of TCP BBR

Start at: 2019-10-03 19:16:29  
End at: 2019-10-03 19:16:59  
Local clock offset: -0.019 ms  
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2019-10-03 20:37:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 492.20 Mbit/s  
95th percentile per-packet one-way delay: 67.310 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 492.20 Mbit/s  
95th percentile per-packet one-way delay: 67.310 ms  
Loss rate: 0.32%

#### Run 4: Report of TCP BBR — Data Link



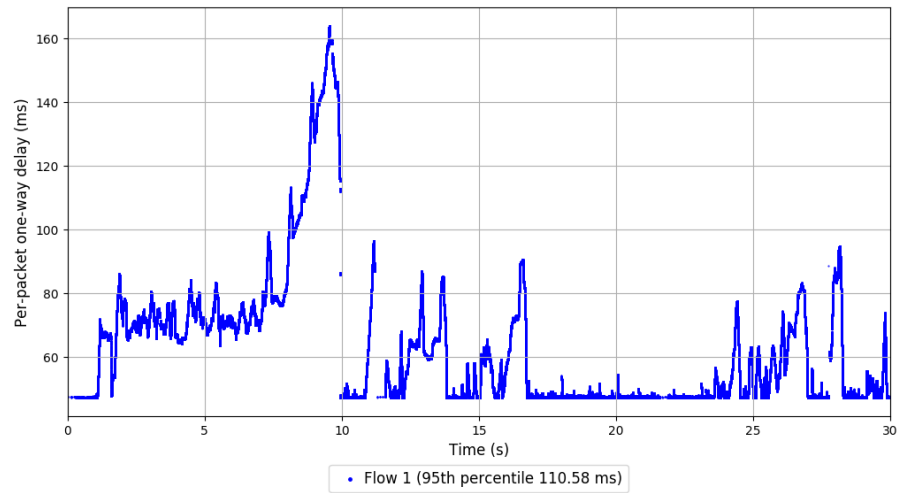
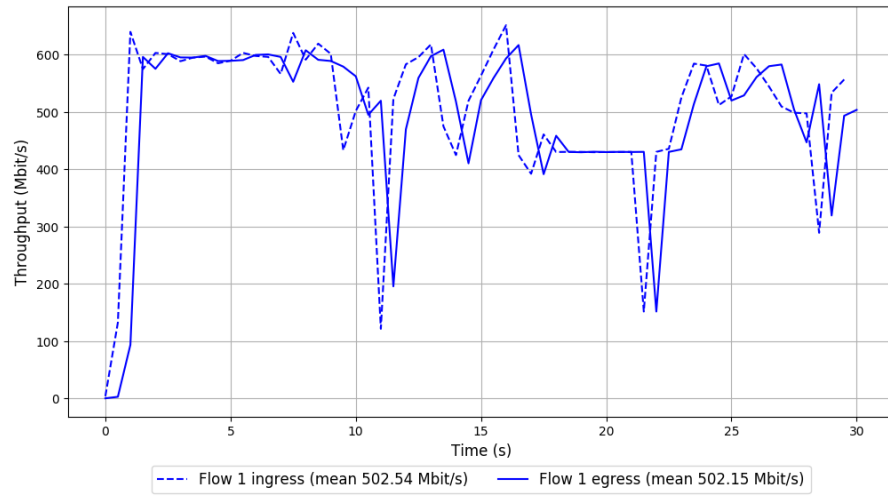


Run 5: Statistics of TCP BBR

Start at: 2019-10-03 19:51:28  
End at: 2019-10-03 19:51:58  
Local clock offset: -0.008 ms  
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2019-10-03 20:37:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 502.15 Mbit/s  
95th percentile per-packet one-way delay: 110.575 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 502.15 Mbit/s  
95th percentile per-packet one-way delay: 110.575 ms  
Loss rate: 0.39%

## Run 5: Report of TCP BBR — Data Link

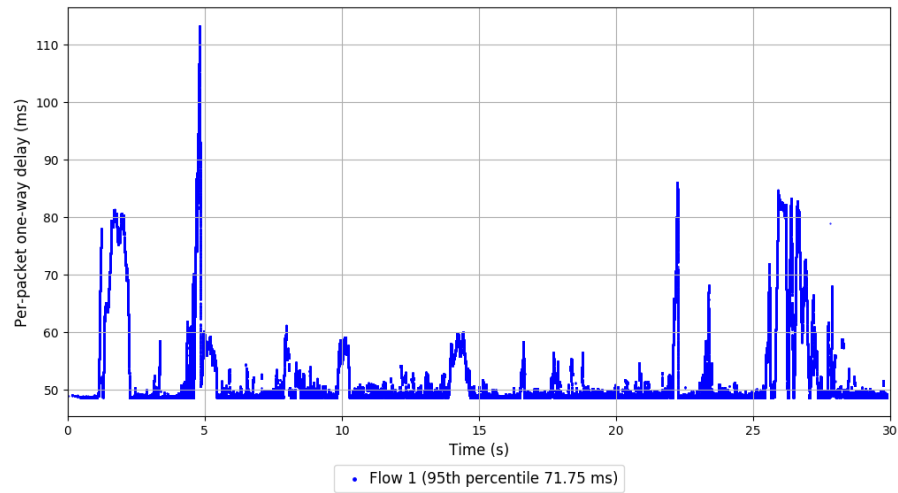
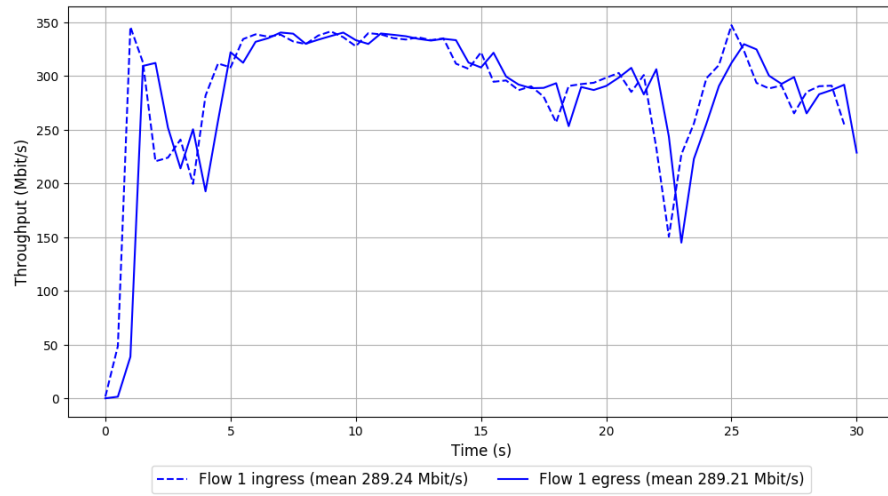


Run 1: Statistics of Copa

Start at: 2019-10-03 17:42:14  
End at: 2019-10-03 17:42:44  
Local clock offset: 0.008 ms  
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2019-10-03 20:37:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 289.21 Mbit/s  
95th percentile per-packet one-way delay: 71.750 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 289.21 Mbit/s  
95th percentile per-packet one-way delay: 71.750 ms  
Loss rate: 0.33%

## Run 1: Report of Copa — Data Link

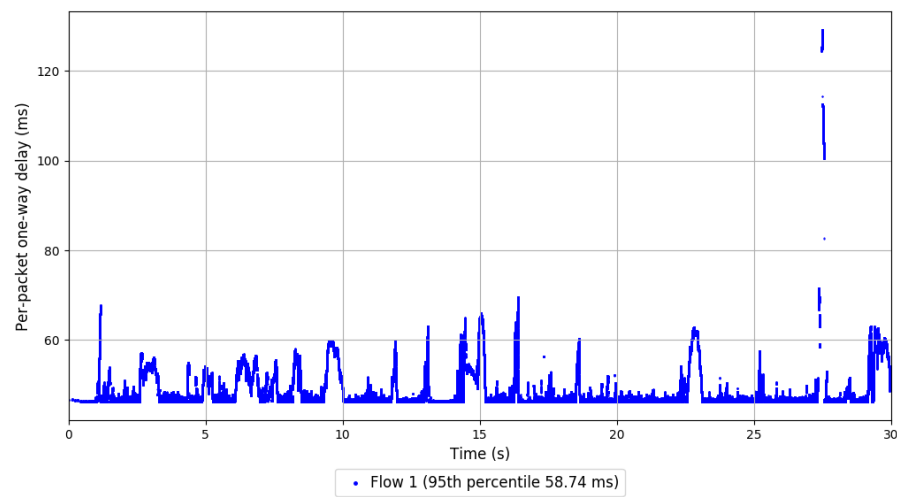
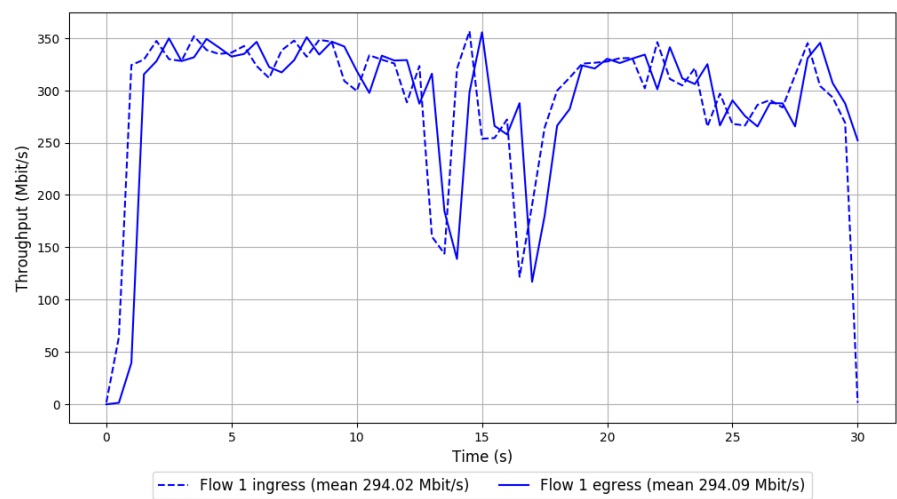


Run 2: Statistics of Copa

Start at: 2019-10-03 18:17:11  
End at: 2019-10-03 18:17:41  
Local clock offset: -0.066 ms  
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2019-10-03 20:37:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 294.09 Mbit/s  
95th percentile per-packet one-way delay: 58.745 ms  
Loss rate: 0.29%  
-- Flow 1:  
Average throughput: 294.09 Mbit/s  
95th percentile per-packet one-way delay: 58.745 ms  
Loss rate: 0.29%

Run 2: Report of Copa — Data Link

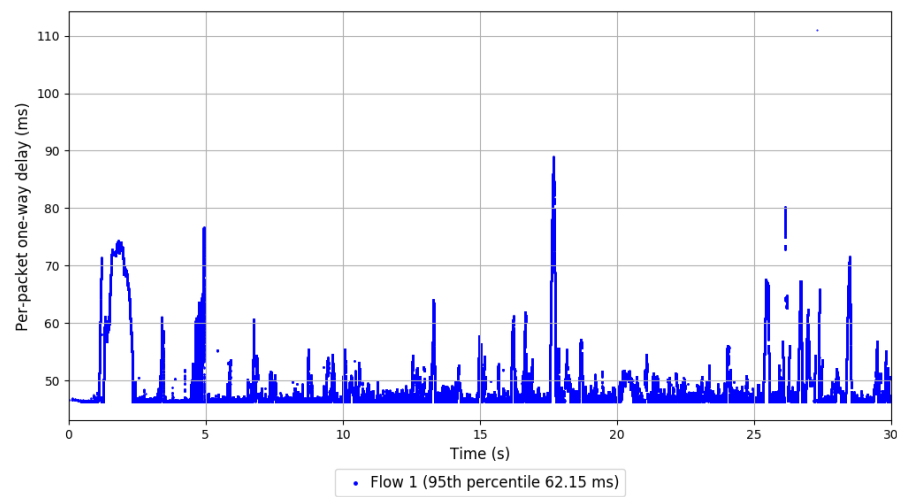
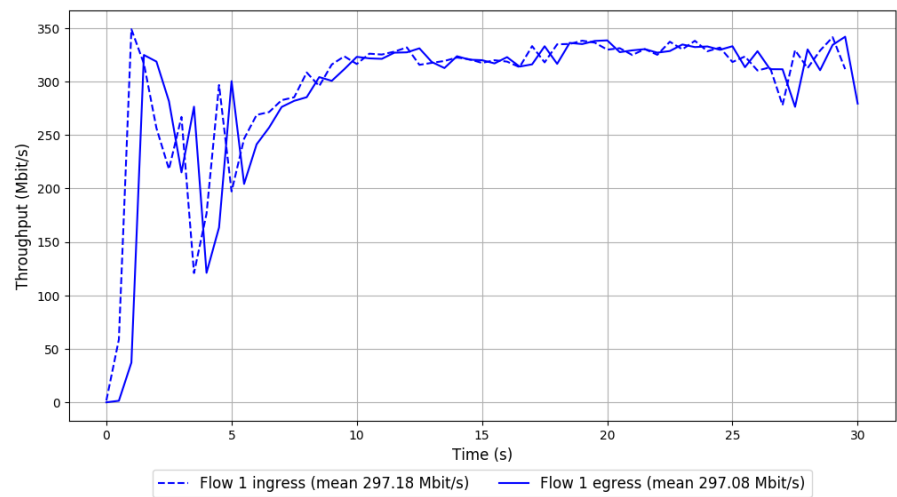


Run 3: Statistics of Copa

Start at: 2019-10-03 18:51:52  
End at: 2019-10-03 18:52:22  
Local clock offset: -0.062 ms  
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2019-10-03 20:38:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 297.08 Mbit/s  
95th percentile per-packet one-way delay: 62.146 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 297.08 Mbit/s  
95th percentile per-packet one-way delay: 62.146 ms  
Loss rate: 0.34%

Run 3: Report of Copa — Data Link



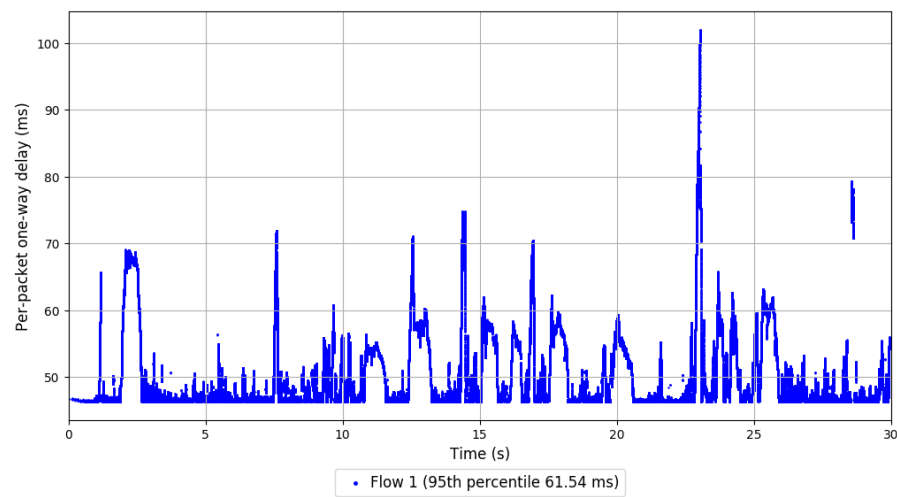
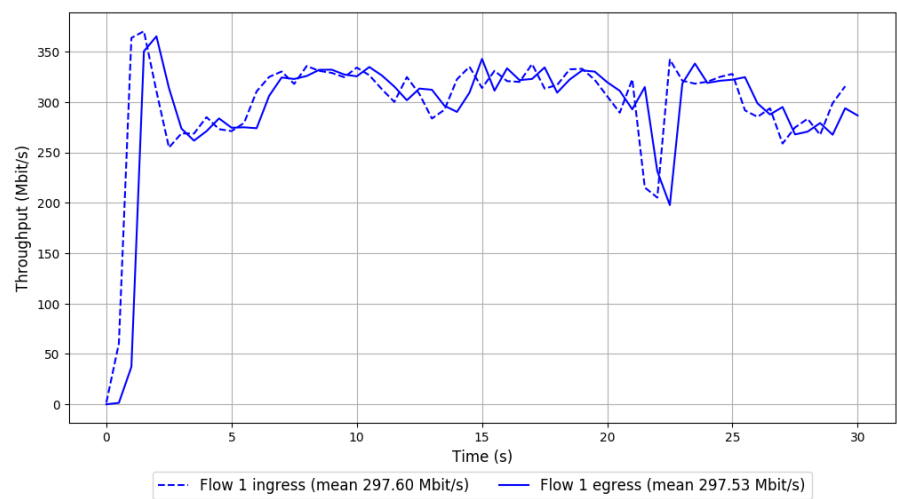


Run 4: Statistics of Copa

Start at: 2019-10-03 19:26:51  
End at: 2019-10-03 19:27:21  
Local clock offset: -0.025 ms  
Remote clock offset: -0.142 ms

# Below is generated by plot.py at 2019-10-03 20:47:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 297.53 Mbit/s  
95th percentile per-packet one-way delay: 61.539 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 297.53 Mbit/s  
95th percentile per-packet one-way delay: 61.539 ms  
Loss rate: 0.34%

Run 4: Report of Copa — Data Link

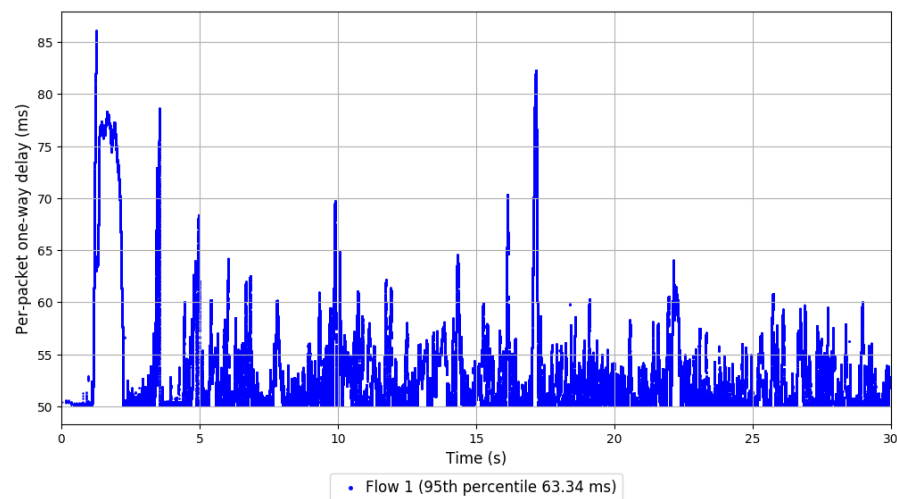
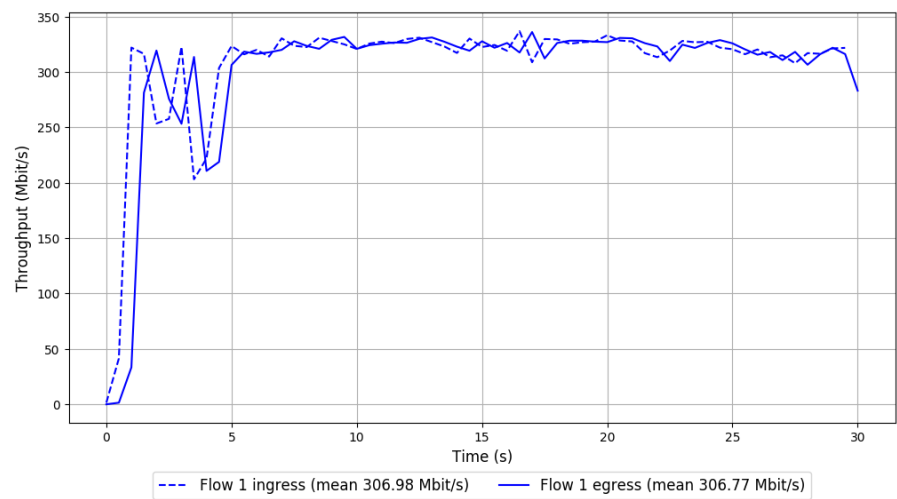


Run 5: Statistics of Copa

Start at: 2019-10-03 20:01:55  
End at: 2019-10-03 20:02:25  
Local clock offset: -0.019 ms  
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2019-10-03 20:47:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 306.77 Mbit/s  
95th percentile per-packet one-way delay: 63.337 ms  
Loss rate: 0.40%  
-- Flow 1:  
Average throughput: 306.77 Mbit/s  
95th percentile per-packet one-way delay: 63.337 ms  
Loss rate: 0.40%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-10-03 17:53:32

End at: 2019-10-03 17:54:02

Local clock offset: 0.044 ms

Remote clock offset: 0.042 ms

# Below is generated by plot.py at 2019-10-03 20:47:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 495.40 Mbit/s

95th percentile per-packet one-way delay: 74.309 ms

Loss rate: 0.42%

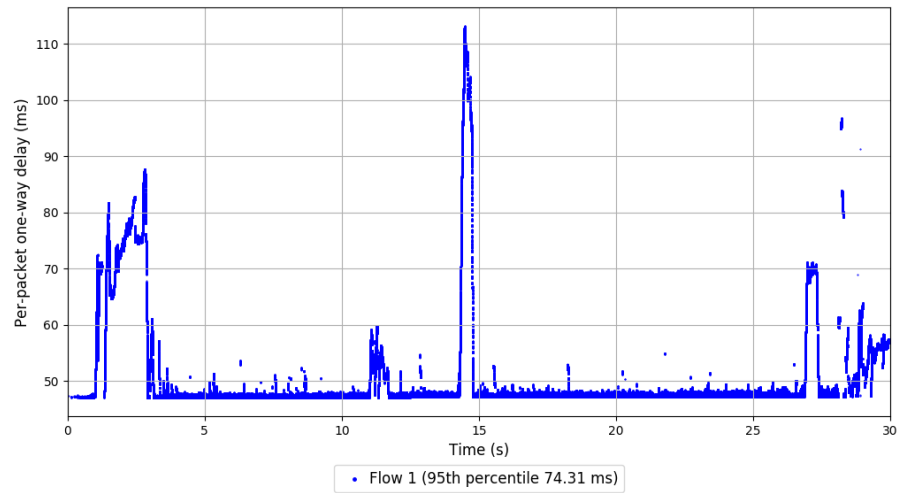
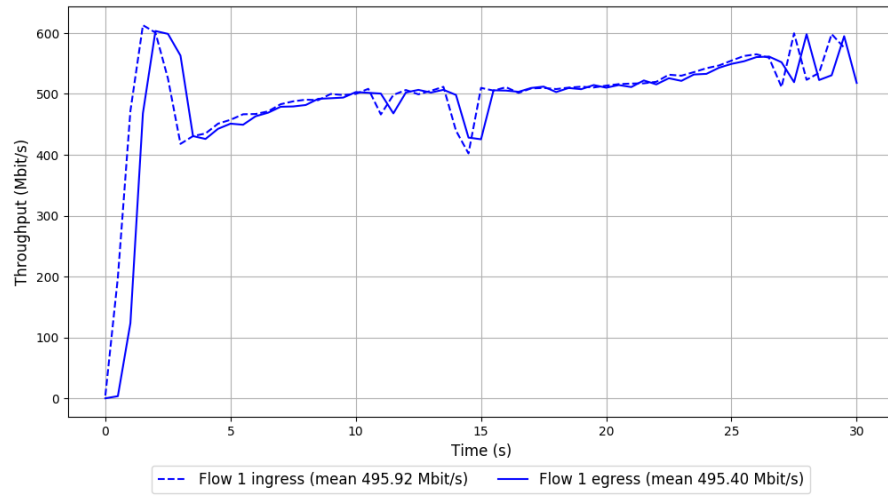
-- Flow 1:

Average throughput: 495.40 Mbit/s

95th percentile per-packet one-way delay: 74.309 ms

Loss rate: 0.42%

### Run 1: Report of TCP Cubic — Data Link

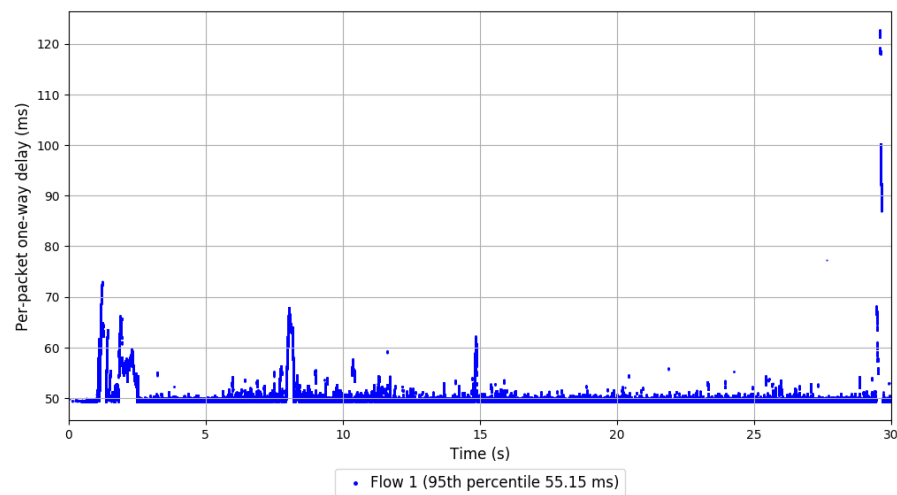
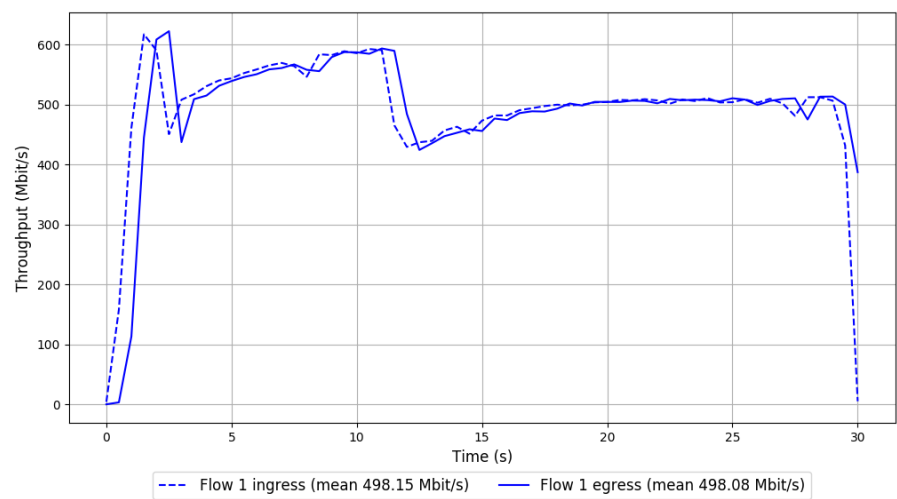


Run 2: Statistics of TCP Cubic

Start at: 2019-10-03 18:28:21  
End at: 2019-10-03 18:28:51  
Local clock offset: -0.041 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-10-03 20:47:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 498.08 Mbit/s  
95th percentile per-packet one-way delay: 55.154 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 498.08 Mbit/s  
95th percentile per-packet one-way delay: 55.154 ms  
Loss rate: 0.34%

Run 2: Report of TCP Cubic — Data Link



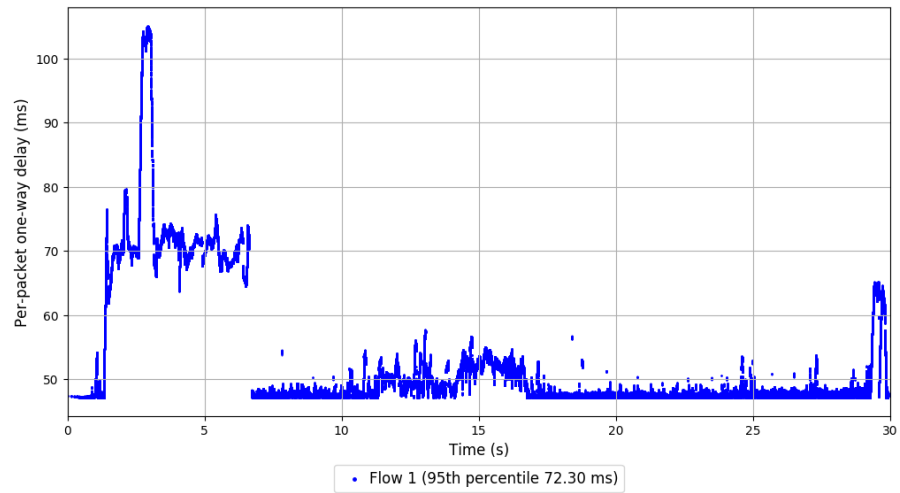
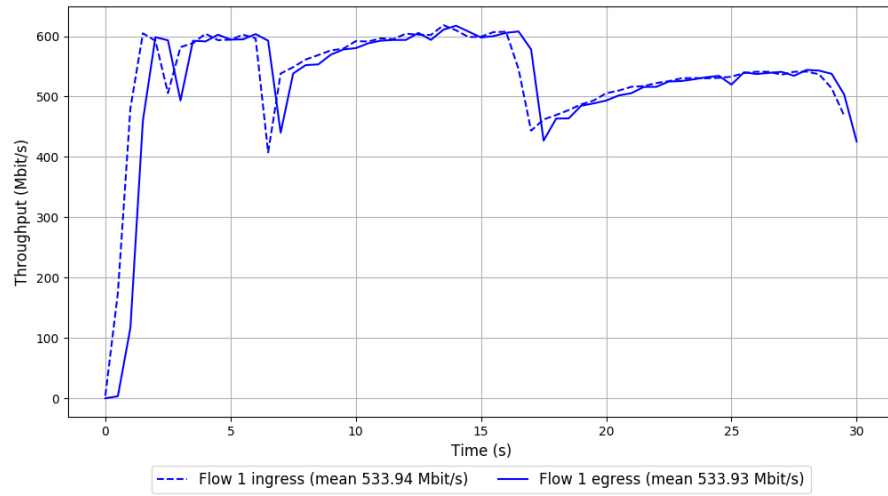


Run 3: Statistics of TCP Cubic

Start at: 2019-10-03 19:03:09  
End at: 2019-10-03 19:03:40  
Local clock offset: -0.036 ms  
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2019-10-03 20:47:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 533.93 Mbit/s  
95th percentile per-packet one-way delay: 72.304 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 533.93 Mbit/s  
95th percentile per-packet one-way delay: 72.304 ms  
Loss rate: 0.32%

### Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-10-03 19:38:10

End at: 2019-10-03 19:38:40

Local clock offset: 0.334 ms

Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2019-10-03 20:47:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 530.19 Mbit/s

95th percentile per-packet one-way delay: 66.401 ms

Loss rate: 0.44%

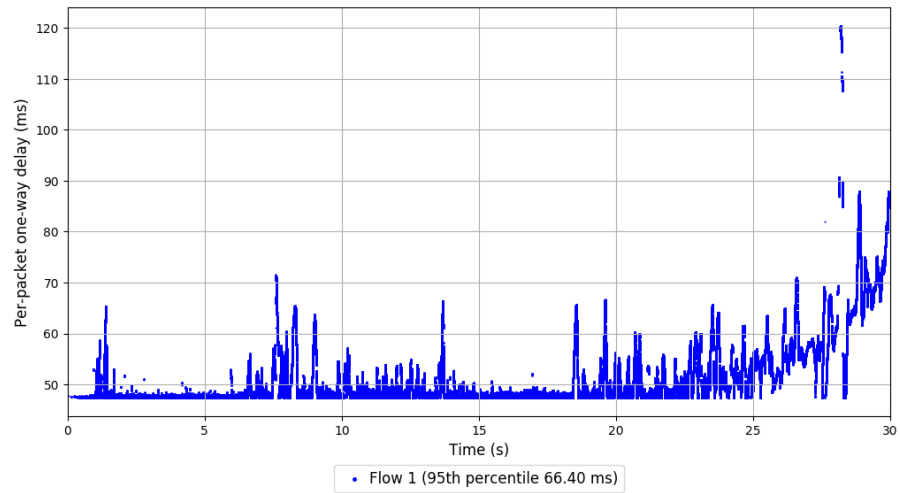
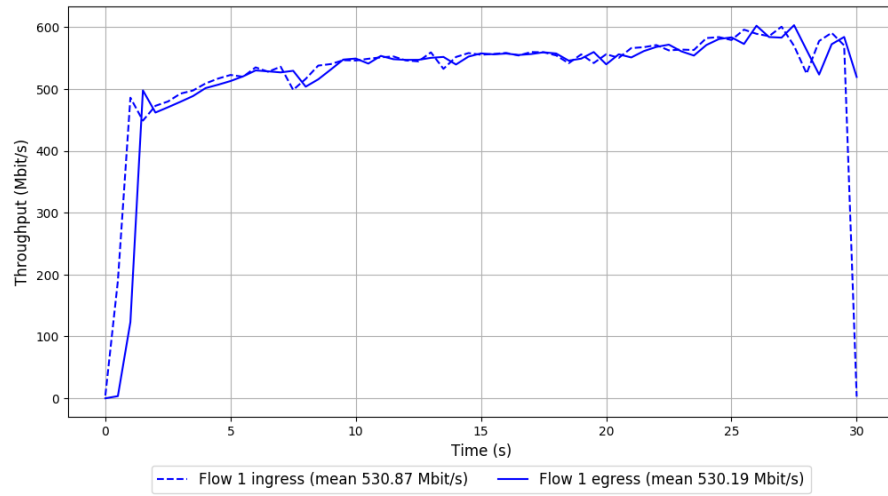
-- Flow 1:

Average throughput: 530.19 Mbit/s

95th percentile per-packet one-way delay: 66.401 ms

Loss rate: 0.44%

#### Run 4: Report of TCP Cubic — Data Link

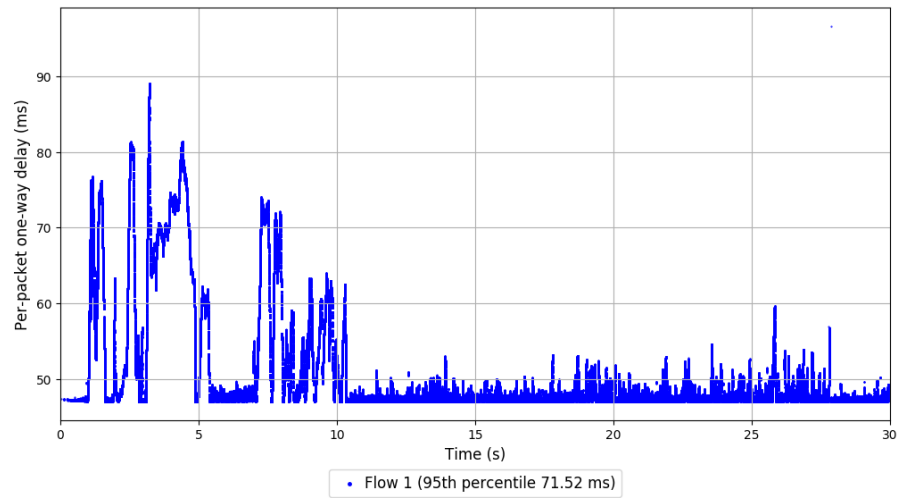
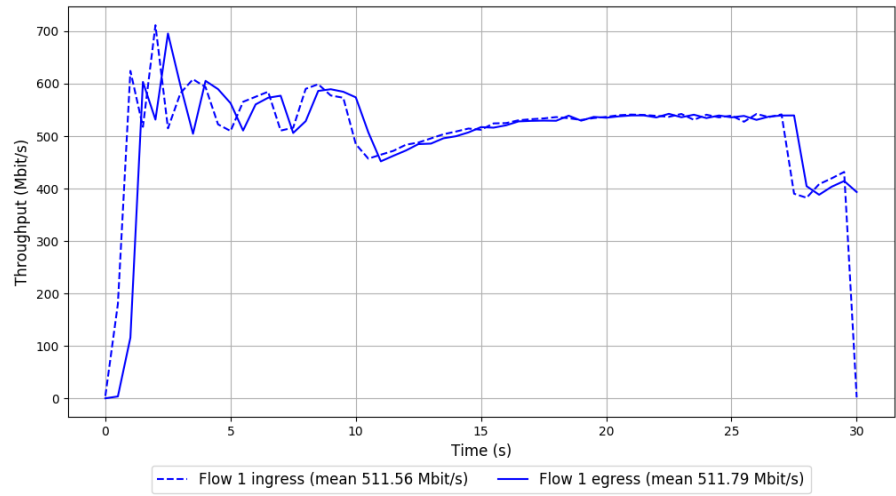


Run 5: Statistics of TCP Cubic

Start at: 2019-10-03 20:13:18  
End at: 2019-10-03 20:13:48  
Local clock offset: -0.033 ms  
Remote clock offset: -0.171 ms

# Below is generated by plot.py at 2019-10-03 20:47:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 511.79 Mbit/s  
95th percentile per-packet one-way delay: 71.517 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 511.79 Mbit/s  
95th percentile per-packet one-way delay: 71.517 ms  
Loss rate: 0.27%

### Run 5: Report of TCP Cubic — Data Link

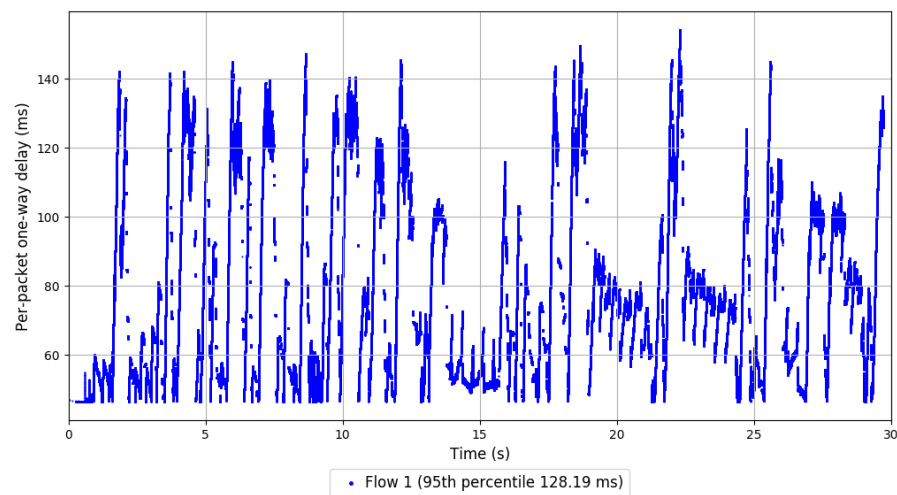
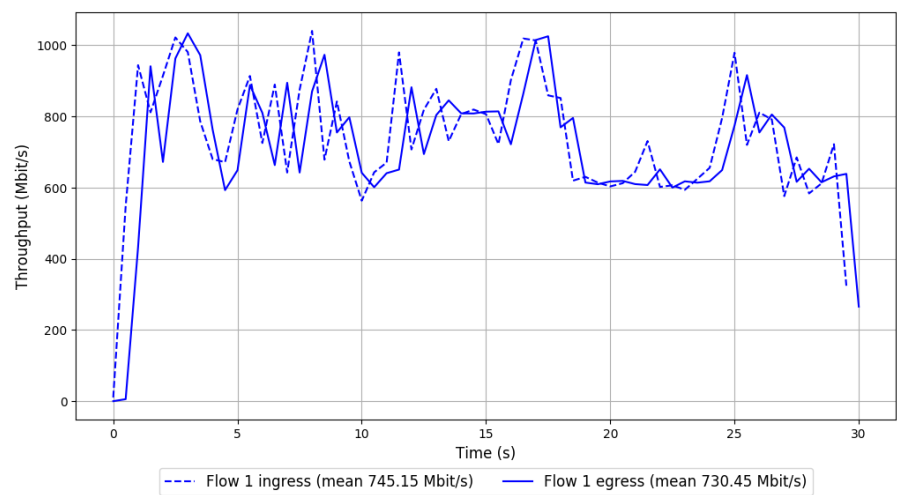


Run 1: Statistics of FillP

Start at: 2019-10-03 17:26:09  
End at: 2019-10-03 17:26:39  
Local clock offset: -0.069 ms  
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2019-10-03 20:53:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 730.45 Mbit/s  
95th percentile per-packet one-way delay: 128.188 ms  
Loss rate: 2.29%  
-- Flow 1:  
Average throughput: 730.45 Mbit/s  
95th percentile per-packet one-way delay: 128.188 ms  
Loss rate: 2.29%

Run 1: Report of FillP — Data Link





Run 2: Statistics of FillP

Start at: 2019-10-03 18:00:55

End at: 2019-10-03 18:01:25

Local clock offset: 0.005 ms

Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2019-10-03 21:00:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 655.78 Mbit/s

95th percentile per-packet one-way delay: 130.904 ms

Loss rate: 2.49%

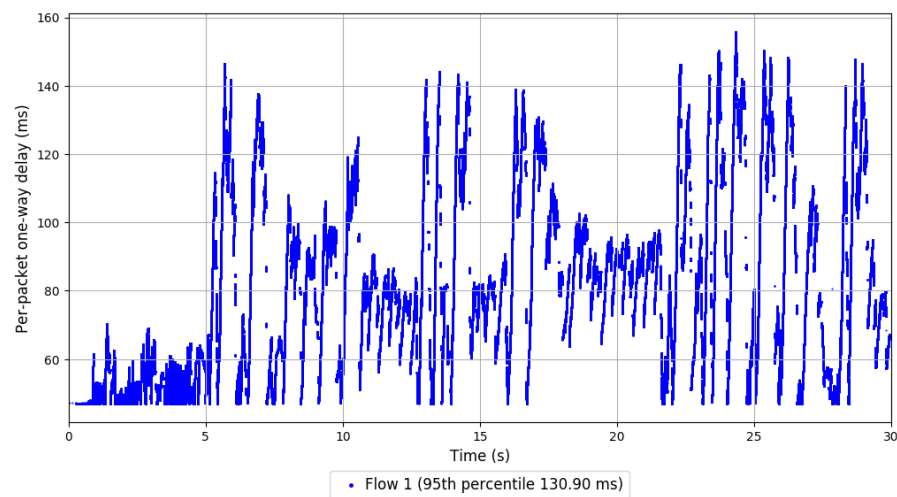
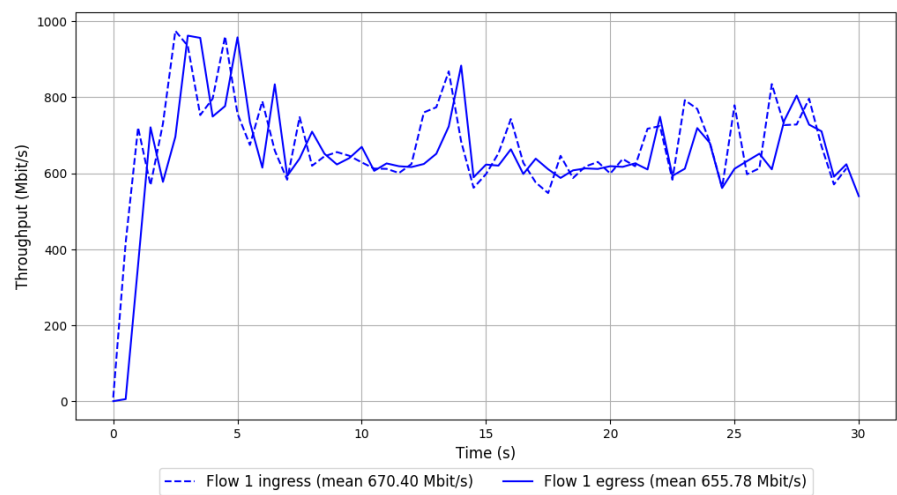
-- Flow 1:

Average throughput: 655.78 Mbit/s

95th percentile per-packet one-way delay: 130.904 ms

Loss rate: 2.49%

Run 2: Report of FillP — Data Link

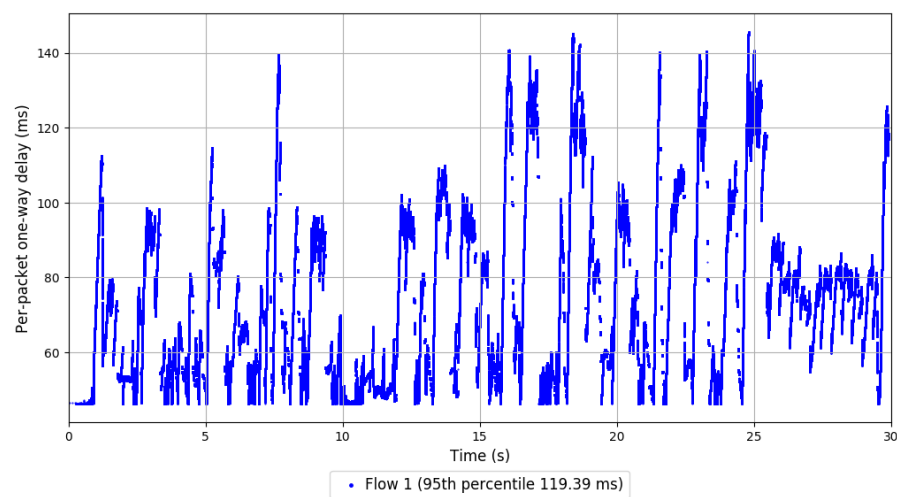
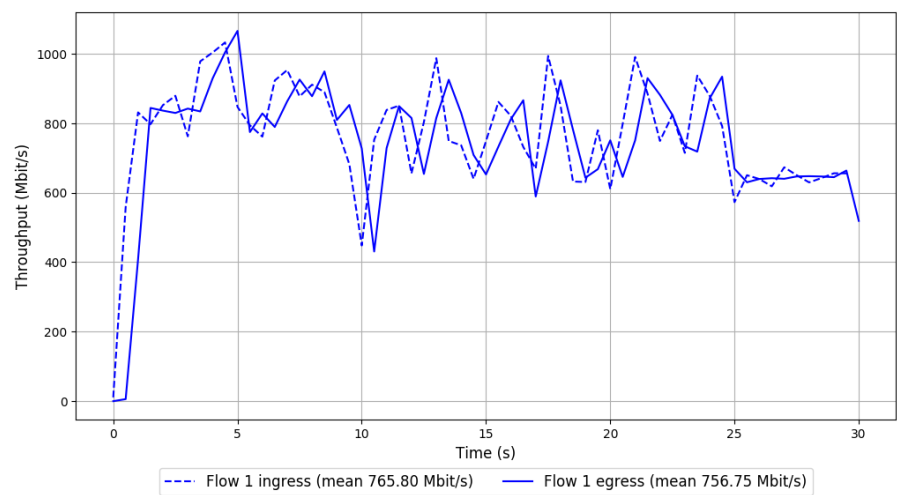


Run 3: Statistics of FillP

Start at: 2019-10-03 18:35:36  
End at: 2019-10-03 18:36:06  
Local clock offset: -0.046 ms  
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2019-10-03 21:04:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 756.75 Mbit/s  
95th percentile per-packet one-way delay: 119.390 ms  
Loss rate: 1.49%  
-- Flow 1:  
Average throughput: 756.75 Mbit/s  
95th percentile per-packet one-way delay: 119.390 ms  
Loss rate: 1.49%

Run 3: Report of FillP — Data Link

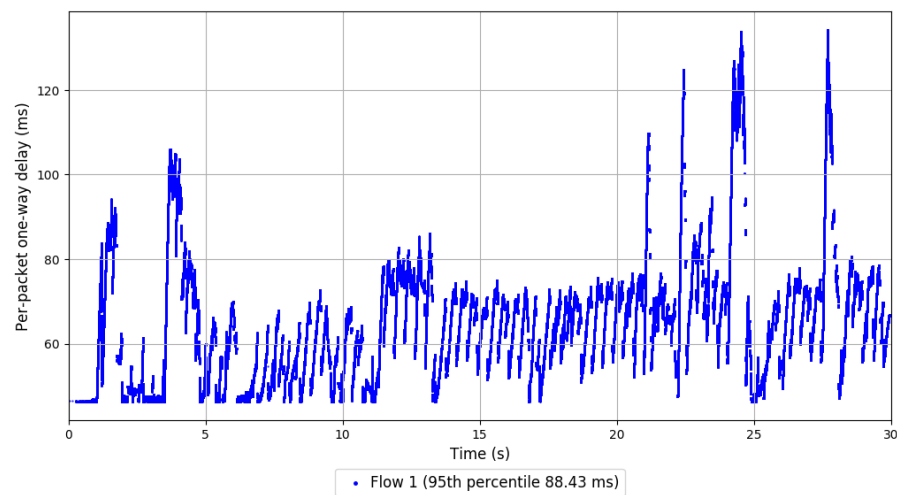
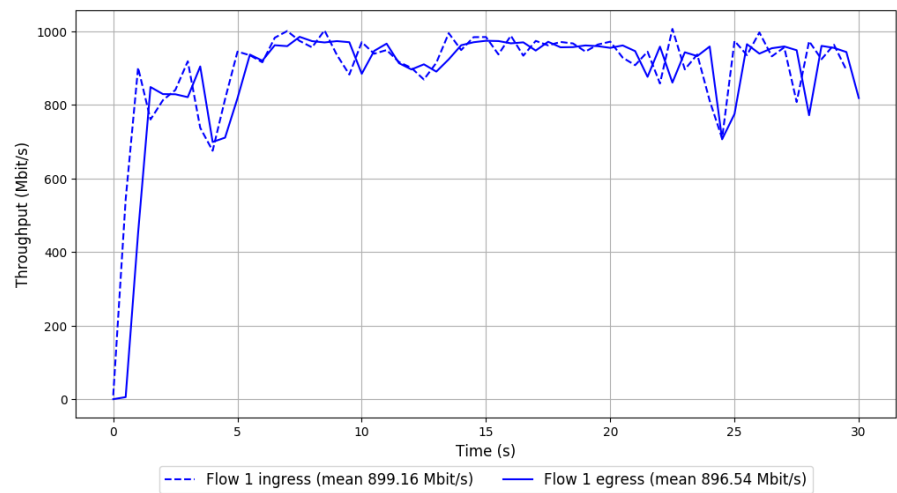


Run 4: Statistics of FillP

Start at: 2019-10-03 19:10:29  
End at: 2019-10-03 19:10:59  
Local clock offset: -0.033 ms  
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2019-10-03 21:08:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 896.54 Mbit/s  
95th percentile per-packet one-way delay: 88.429 ms  
Loss rate: 0.61%  
-- Flow 1:  
Average throughput: 896.54 Mbit/s  
95th percentile per-packet one-way delay: 88.429 ms  
Loss rate: 0.61%

Run 4: Report of FillP — Data Link

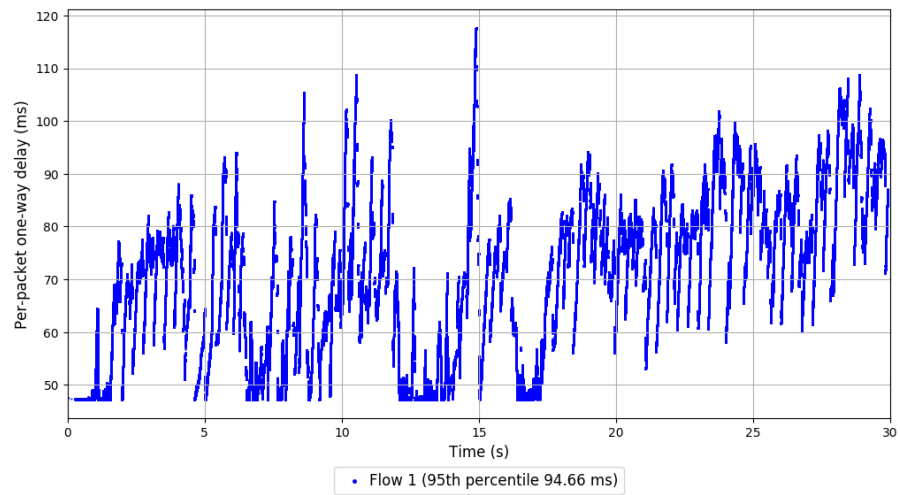
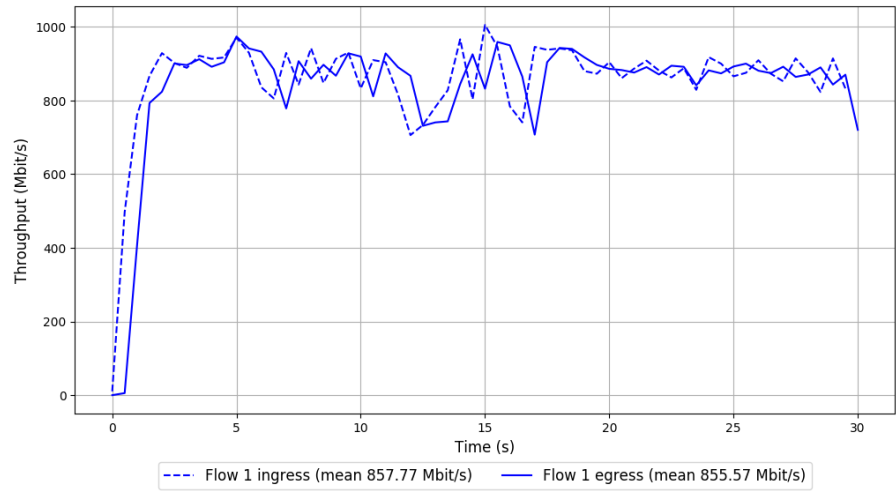


Run 5: Statistics of FillP

Start at: 2019-10-03 19:45:33  
End at: 2019-10-03 19:46:03  
Local clock offset: -0.012 ms  
Remote clock offset: -0.142 ms

# Below is generated by plot.py at 2019-10-03 21:08:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 855.57 Mbit/s  
95th percentile per-packet one-way delay: 94.659 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 855.57 Mbit/s  
95th percentile per-packet one-way delay: 94.659 ms  
Loss rate: 0.57%

### Run 5: Report of FillP — Data Link



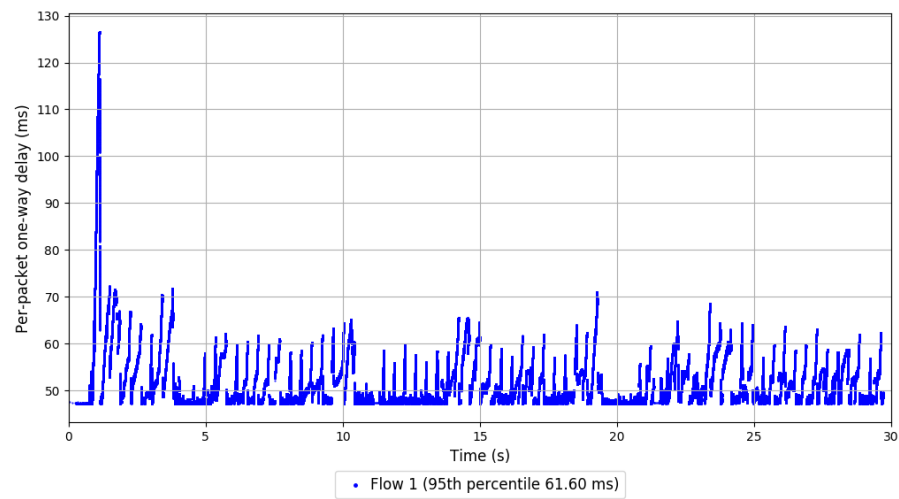
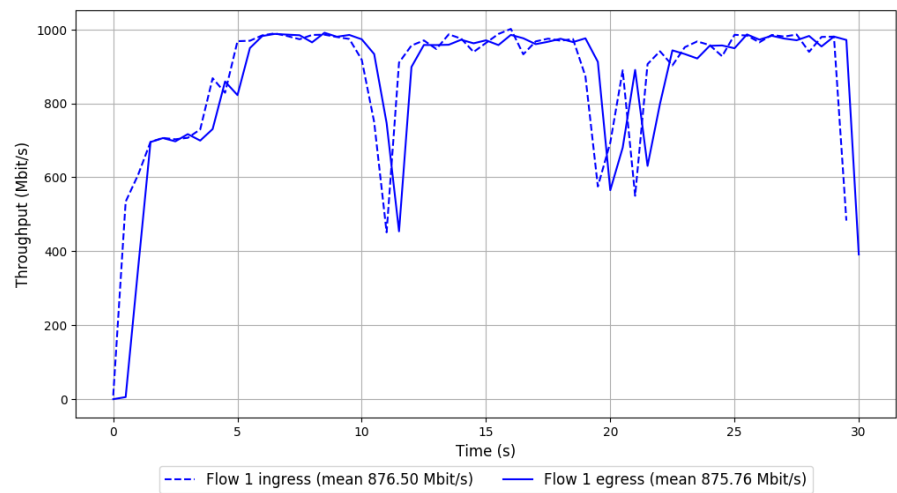


Run 1: Statistics of FillP-Sheep

Start at: 2019-10-03 17:23:20  
End at: 2019-10-03 17:23:50  
Local clock offset: -0.023 ms  
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-10-03 21:08:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 875.76 Mbit/s  
95th percentile per-packet one-way delay: 61.600 ms  
Loss rate: 0.40%  
-- Flow 1:  
Average throughput: 875.76 Mbit/s  
95th percentile per-packet one-way delay: 61.600 ms  
Loss rate: 0.40%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-10-03 17:58:02

End at: 2019-10-03 17:58:32

Local clock offset: 0.085 ms

Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2019-10-03 21:08:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 854.00 Mbit/s

95th percentile per-packet one-way delay: 74.328 ms

Loss rate: 0.63%

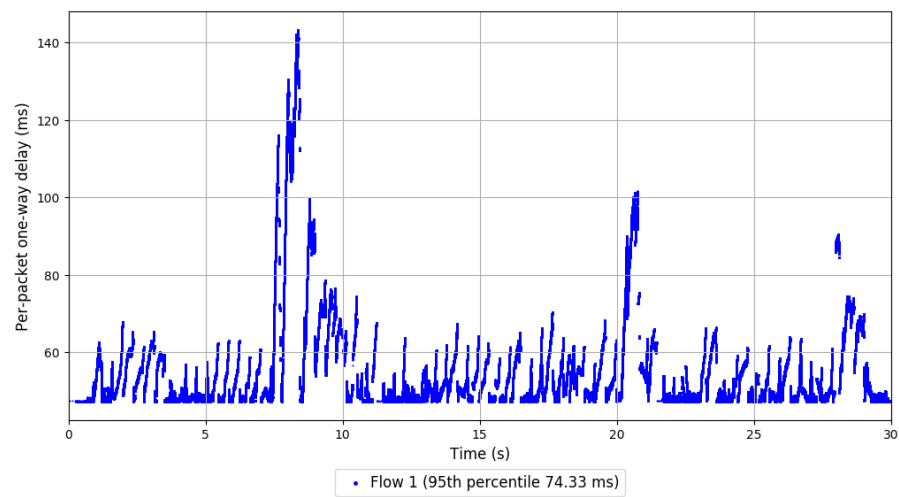
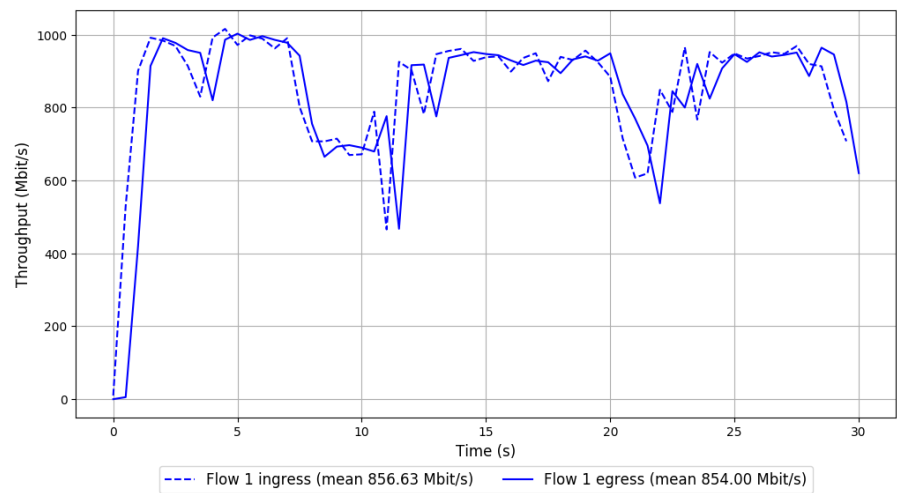
-- Flow 1:

Average throughput: 854.00 Mbit/s

95th percentile per-packet one-way delay: 74.328 ms

Loss rate: 0.63%

Run 2: Report of FillP-Sheep — Data Link

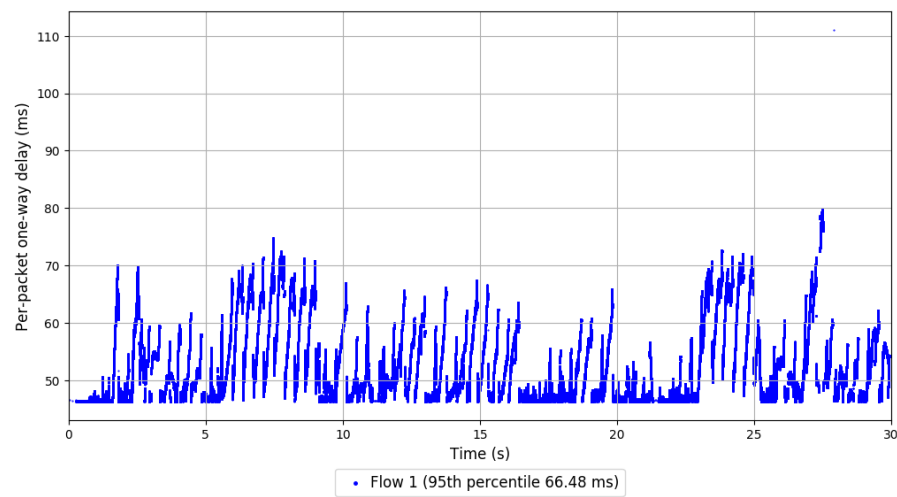
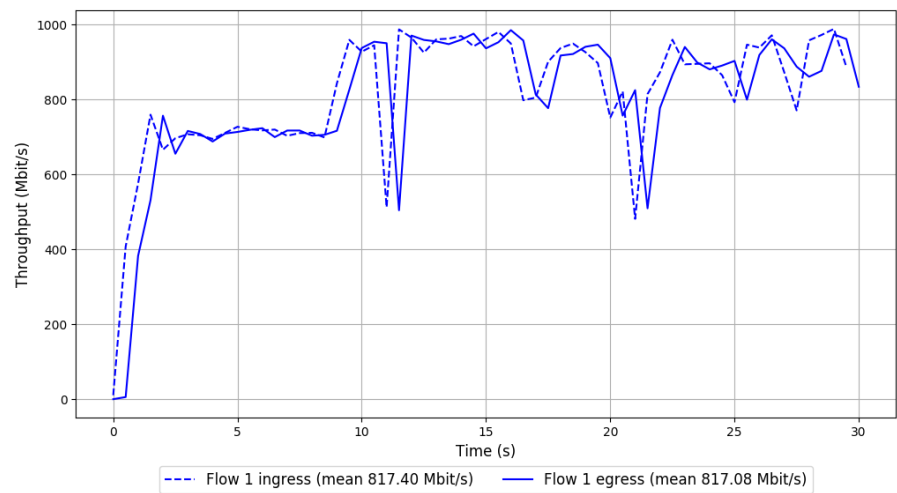


Run 3: Statistics of FillP-Sheep

Start at: 2019-10-03 18:32:47  
End at: 2019-10-03 18:33:17  
Local clock offset: -0.031 ms  
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-10-03 21:08:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 817.08 Mbit/s  
95th percentile per-packet one-way delay: 66.482 ms  
Loss rate: 0.35%  
-- Flow 1:  
Average throughput: 817.08 Mbit/s  
95th percentile per-packet one-way delay: 66.482 ms  
Loss rate: 0.35%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-10-03 19:07:39

End at: 2019-10-03 19:08:09

Local clock offset: -0.036 ms

Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2019-10-03 21:13:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 821.94 Mbit/s

95th percentile per-packet one-way delay: 77.198 ms

Loss rate: 0.36%

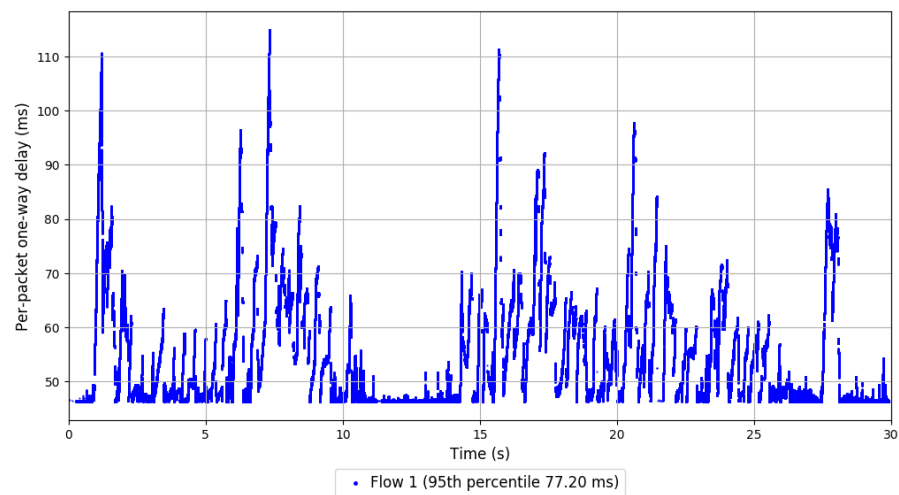
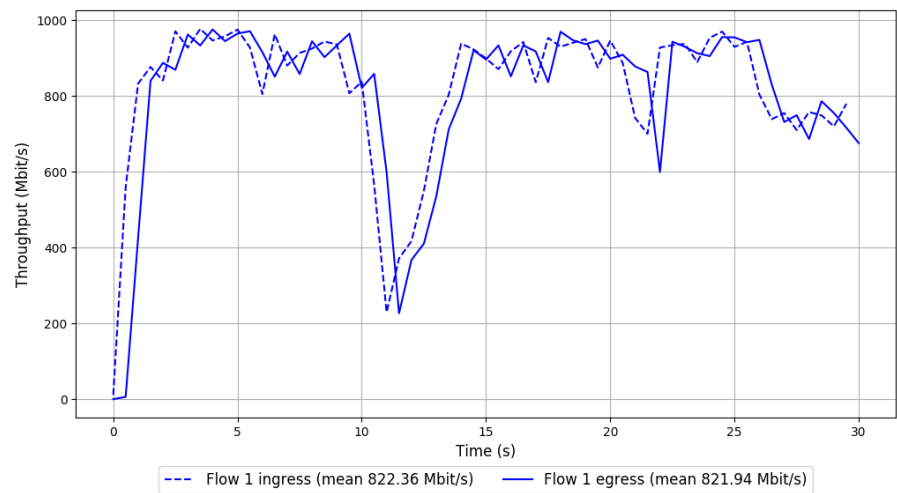
-- Flow 1:

Average throughput: 821.94 Mbit/s

95th percentile per-packet one-way delay: 77.198 ms

Loss rate: 0.36%

Run 4: Report of FillP-Sheep — Data Link



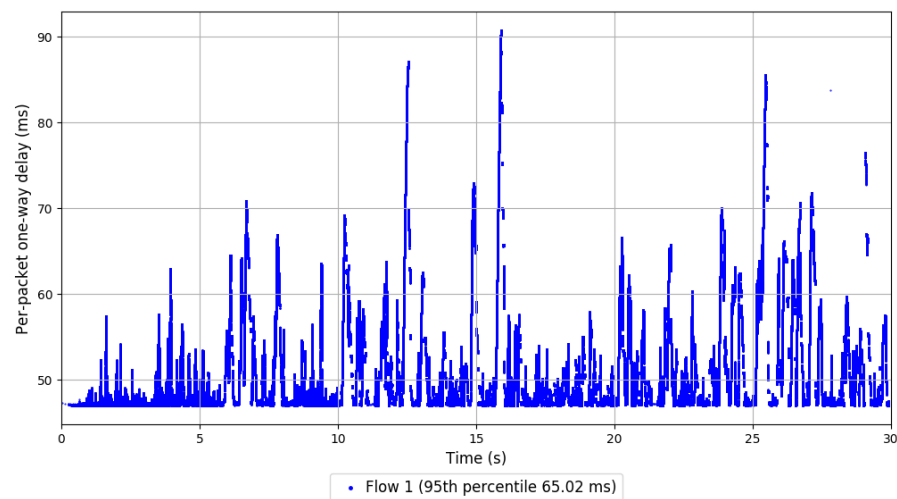
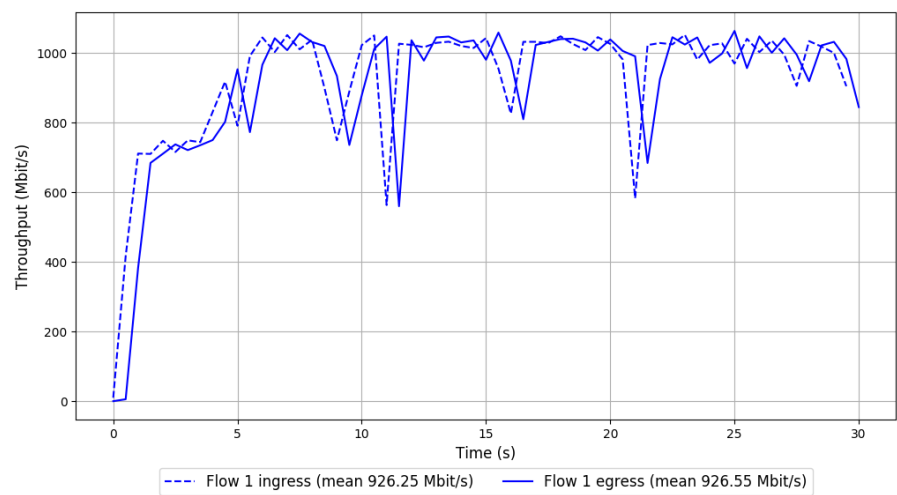


Run 5: Statistics of FillP-Sheep

Start at: 2019-10-03 19:42:38  
End at: 2019-10-03 19:43:08  
Local clock offset: 0.004 ms  
Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2019-10-03 21:22:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 926.55 Mbit/s  
95th percentile per-packet one-way delay: 65.016 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 926.55 Mbit/s  
95th percentile per-packet one-way delay: 65.016 ms  
Loss rate: 0.30%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

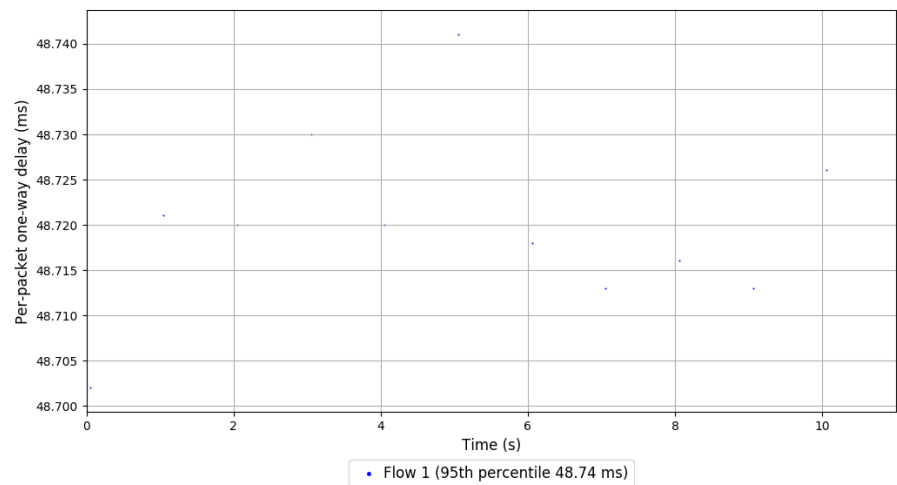
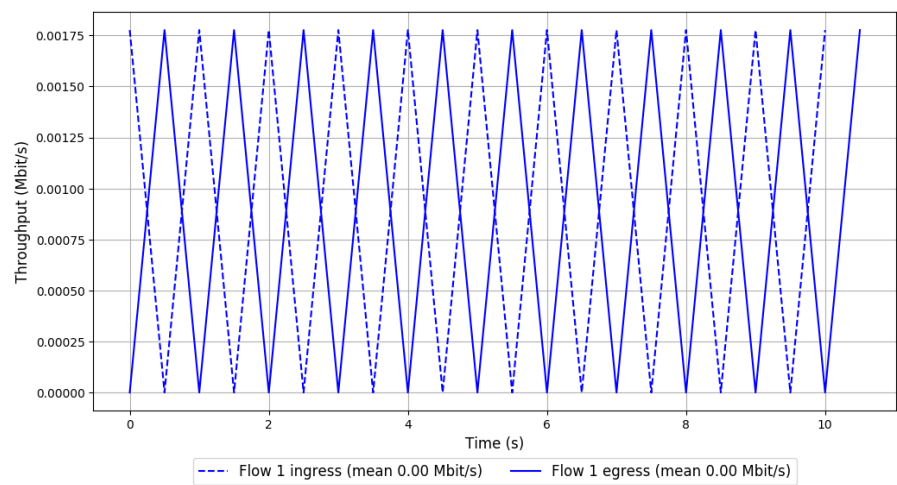
Start at: 2019-10-03 17:20:42

End at: 2019-10-03 17:21:13

Local clock offset: -0.08 ms

Remote clock offset: -0.066 ms

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-10-03 17:55:03

End at: 2019-10-03 17:55:33

Local clock offset: 0.035 ms

Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2019-10-03 21:22:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 238.35 Mbit/s

95th percentile per-packet one-way delay: 47.546 ms

Loss rate: 0.31%

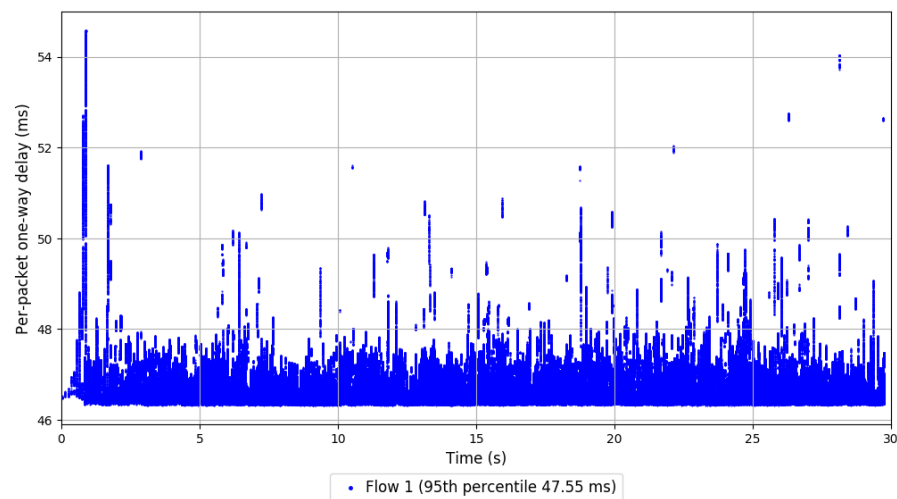
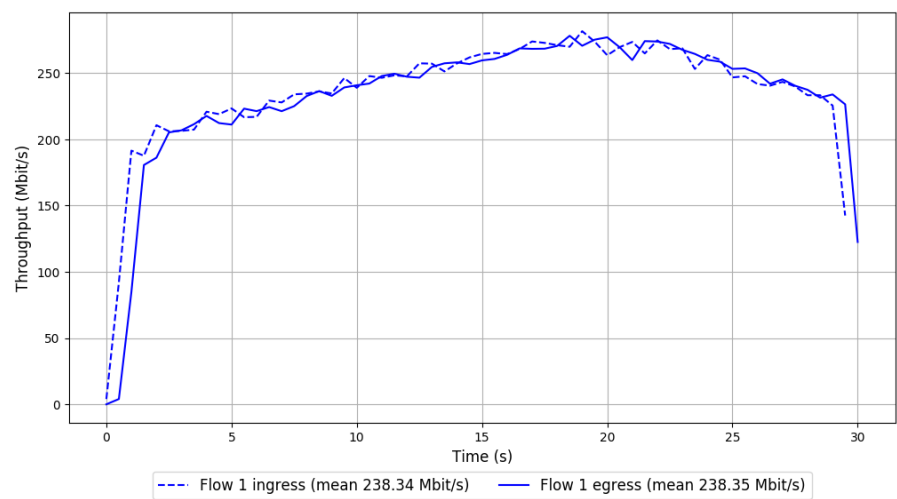
-- Flow 1:

Average throughput: 238.35 Mbit/s

95th percentile per-packet one-way delay: 47.546 ms

Loss rate: 0.31%

Run 2: Report of Indigo — Data Link

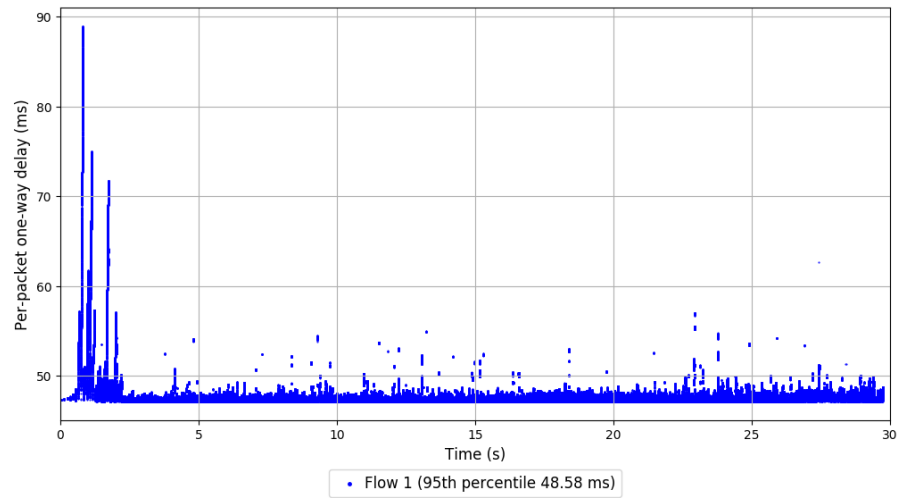
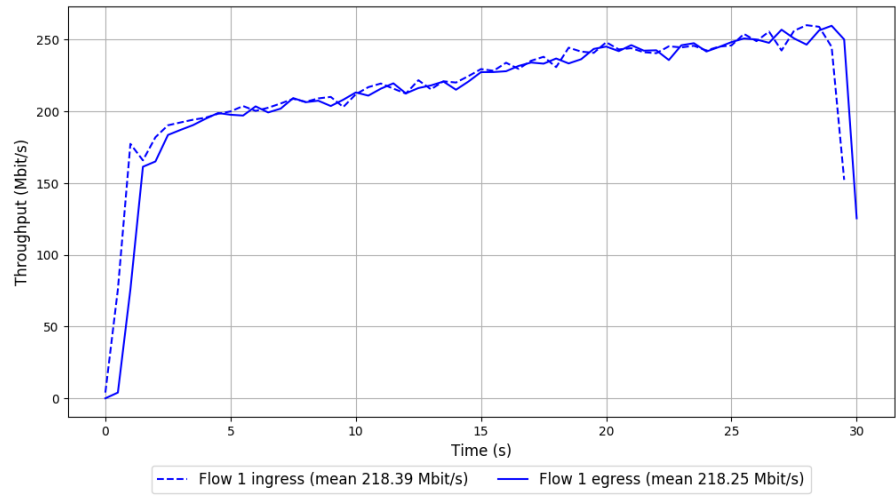


Run 3: Statistics of Indigo

Start at: 2019-10-03 18:29:52  
End at: 2019-10-03 18:30:22  
Local clock offset: -0.014 ms  
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-10-03 21:22:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 218.25 Mbit/s  
95th percentile per-packet one-way delay: 48.584 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 218.25 Mbit/s  
95th percentile per-packet one-way delay: 48.584 ms  
Loss rate: 0.38%

### Run 3: Report of Indigo — Data Link



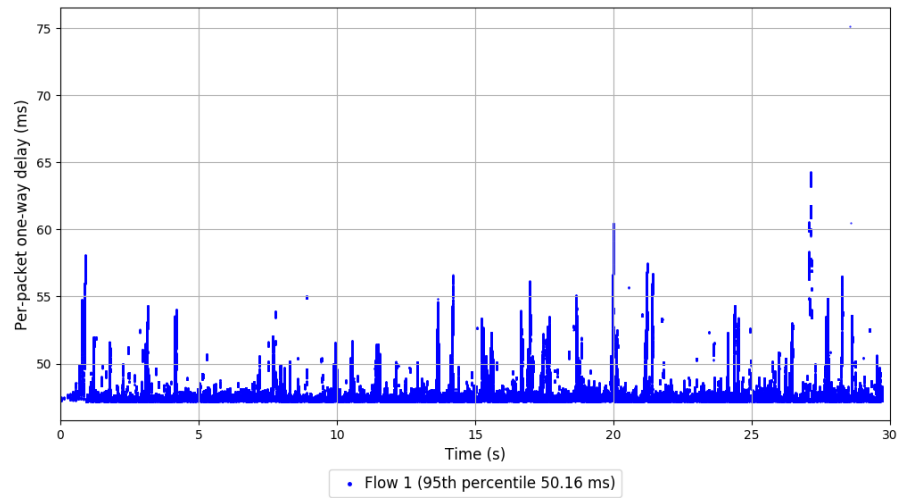
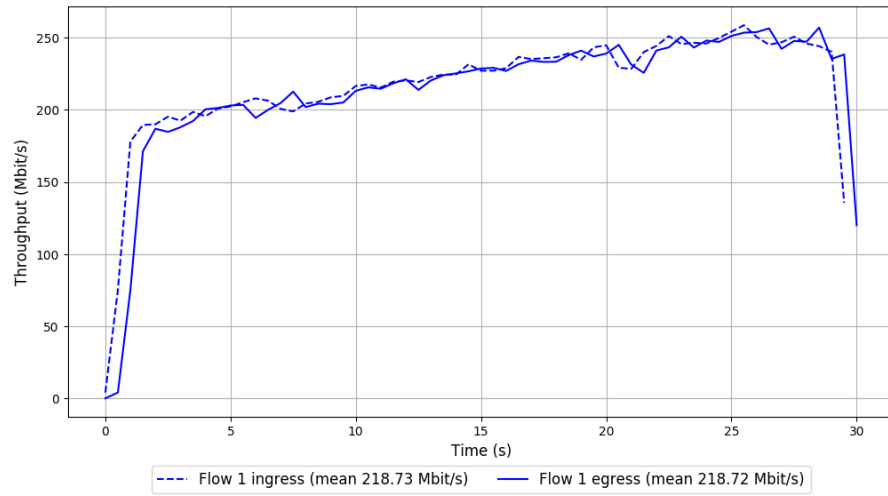


Run 4: Statistics of Indigo

Start at: 2019-10-03 19:04:42  
End at: 2019-10-03 19:05:12  
Local clock offset: -0.031 ms  
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2019-10-03 21:22:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 218.72 Mbit/s  
95th percentile per-packet one-way delay: 50.164 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 218.72 Mbit/s  
95th percentile per-packet one-way delay: 50.164 ms  
Loss rate: 0.32%

#### Run 4: Report of Indigo — Data Link

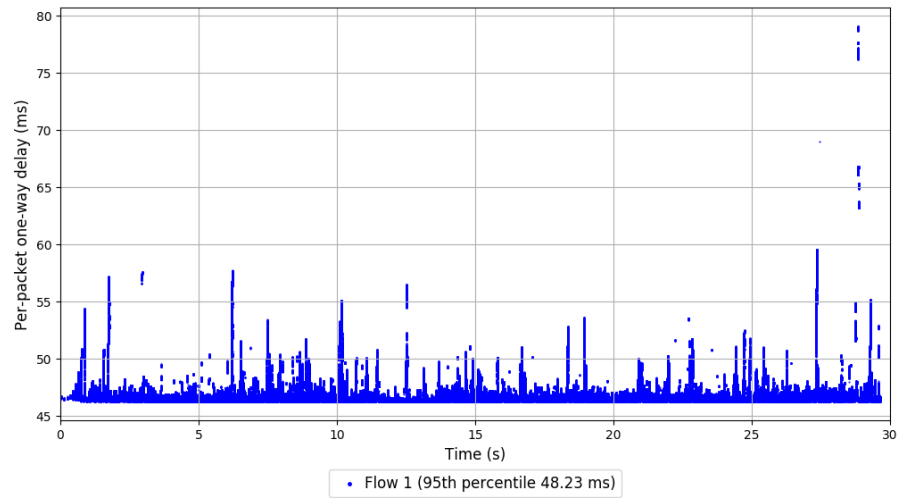
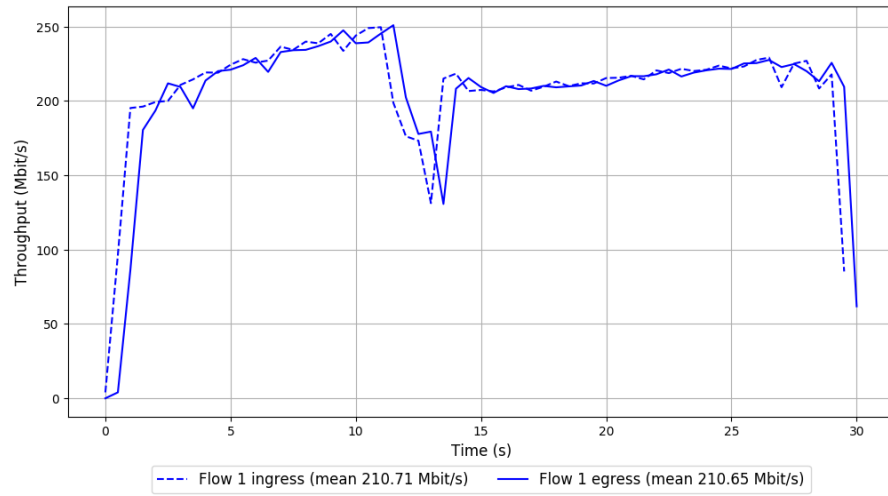


Run 5: Statistics of Indigo

Start at: 2019-10-03 19:39:42  
End at: 2019-10-03 19:40:12  
Local clock offset: -0.017 ms  
Remote clock offset: -0.154 ms

# Below is generated by plot.py at 2019-10-03 21:22:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 210.65 Mbit/s  
95th percentile per-packet one-way delay: 48.232 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 210.65 Mbit/s  
95th percentile per-packet one-way delay: 48.232 ms  
Loss rate: 0.34%

### Run 5: Report of Indigo — Data Link

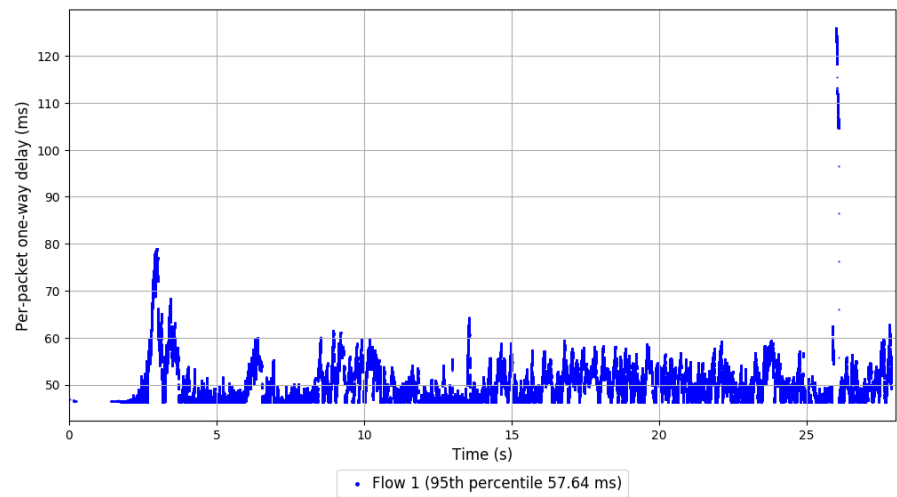
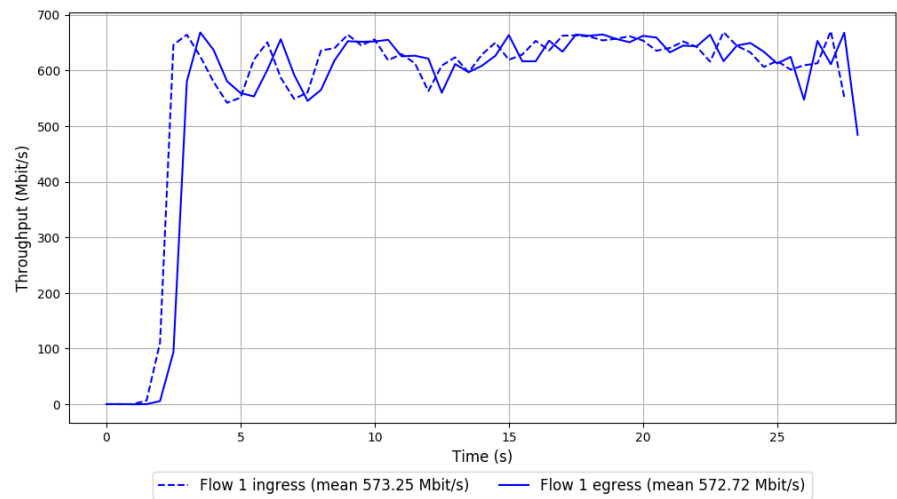


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-10-03 17:30:17  
End at: 2019-10-03 17:30:47  
Local clock offset: -0.042 ms  
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2019-10-03 21:22:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 572.72 Mbit/s  
95th percentile per-packet one-way delay: 57.642 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 572.72 Mbit/s  
95th percentile per-packet one-way delay: 57.642 ms  
Loss rate: 0.43%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-10-03 18:04:58

End at: 2019-10-03 18:05:28

Local clock offset: -0.054 ms

Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2019-10-03 21:22:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 617.97 Mbit/s

95th percentile per-packet one-way delay: 59.094 ms

Loss rate: 0.40%

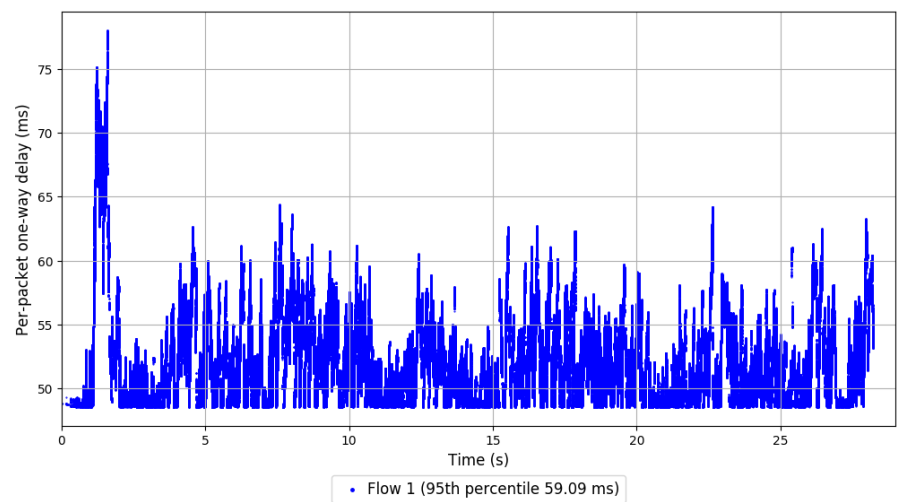
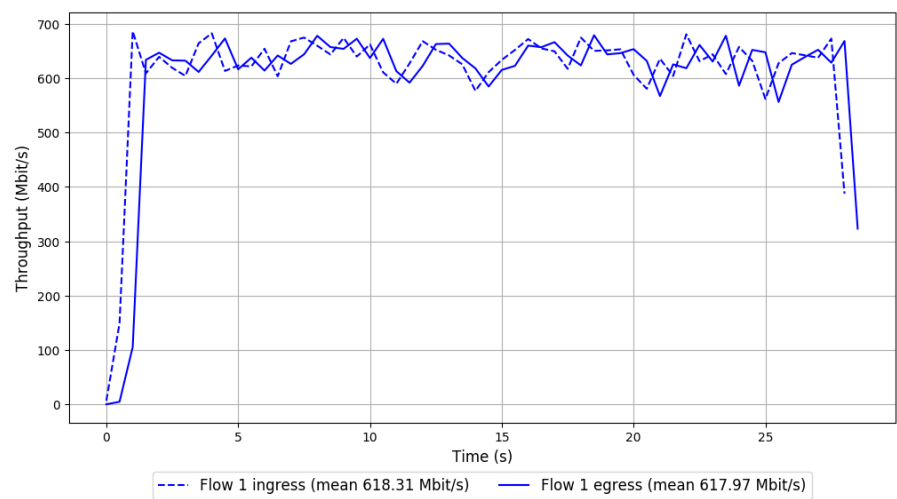
-- Flow 1:

Average throughput: 617.97 Mbit/s

95th percentile per-packet one-way delay: 59.094 ms

Loss rate: 0.40%

Run 2: Report of Indigo-MusesC3 — Data Link



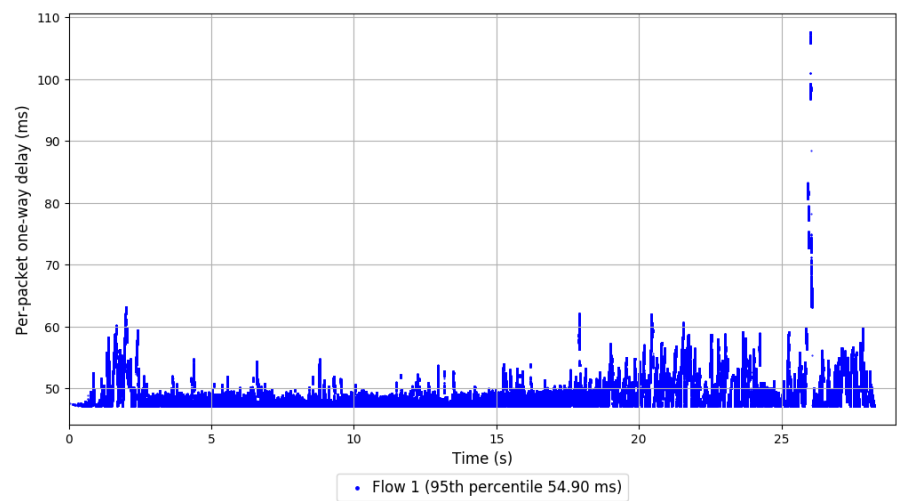
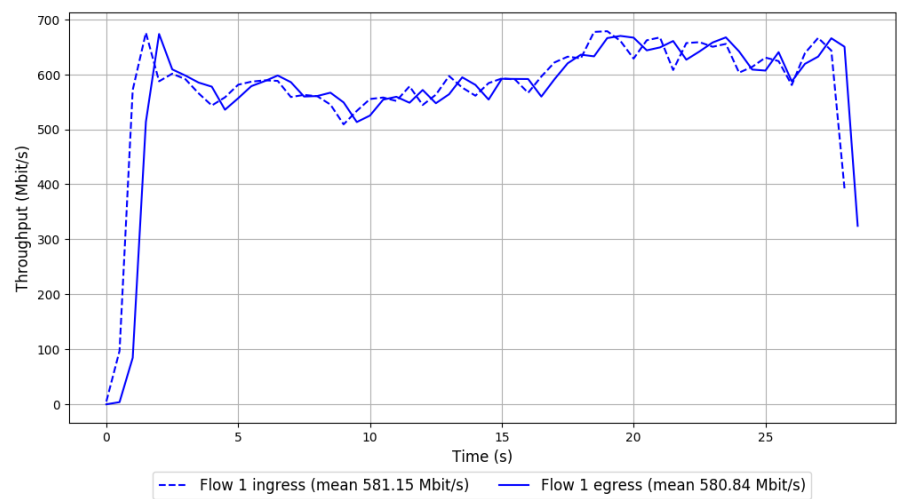


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-10-03 18:39:52  
End at: 2019-10-03 18:40:22  
Local clock offset: -0.056 ms  
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2019-10-03 21:22:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 580.84 Mbit/s  
95th percentile per-packet one-way delay: 54.900 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 580.84 Mbit/s  
95th percentile per-packet one-way delay: 54.900 ms  
Loss rate: 0.39%

Run 3: Report of Indigo-MusesC3 — Data Link

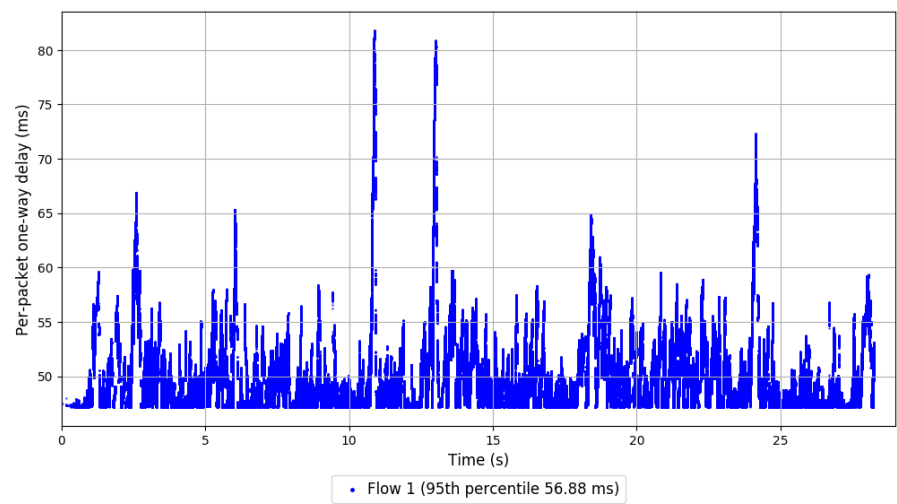
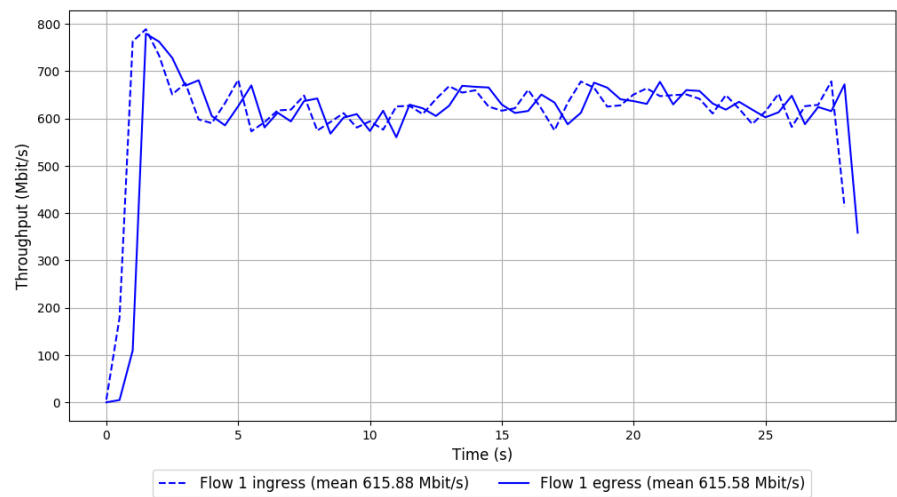


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-10-03 19:14:54  
End at: 2019-10-03 19:15:24  
Local clock offset: 0.004 ms  
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2019-10-03 21:24:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 615.58 Mbit/s  
95th percentile per-packet one-way delay: 56.877 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 615.58 Mbit/s  
95th percentile per-packet one-way delay: 56.877 ms  
Loss rate: 0.39%

Run 4: Report of Indigo-MusesC3 — Data Link

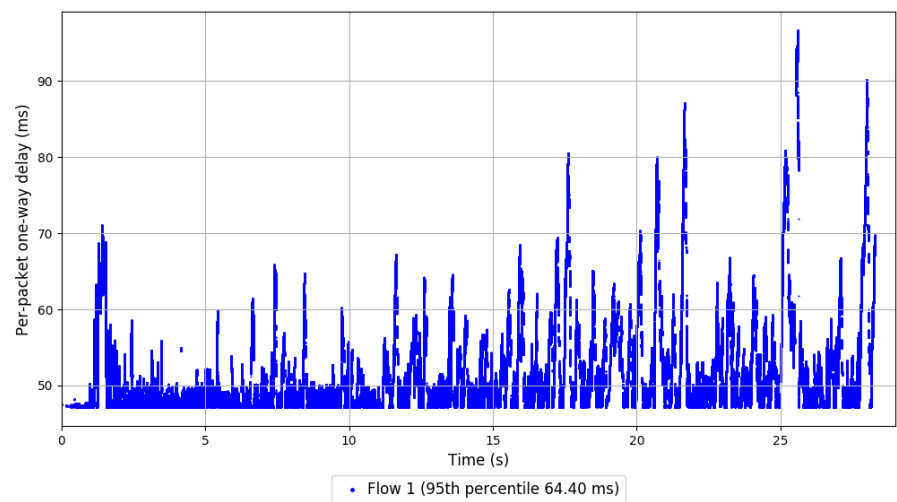
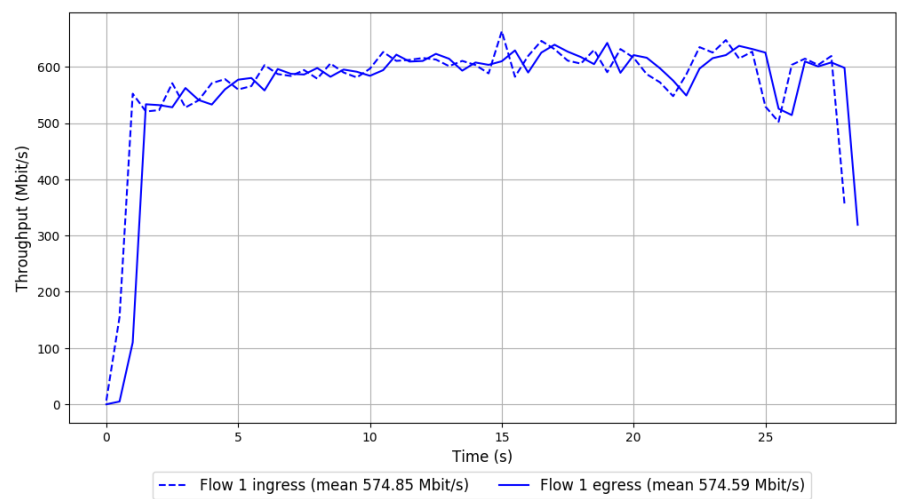


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-10-03 19:49:55  
End at: 2019-10-03 19:50:25  
Local clock offset: -0.054 ms  
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2019-10-03 21:25:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 574.59 Mbit/s  
95th percentile per-packet one-way delay: 64.402 ms  
Loss rate: 0.36%  
-- Flow 1:  
Average throughput: 574.59 Mbit/s  
95th percentile per-packet one-way delay: 64.402 ms  
Loss rate: 0.36%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-10-03 17:39:05

End at: 2019-10-03 17:39:35

Local clock offset: 0.015 ms

Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2019-10-03 21:26:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 634.04 Mbit/s

95th percentile per-packet one-way delay: 69.569 ms

Loss rate: 0.41%

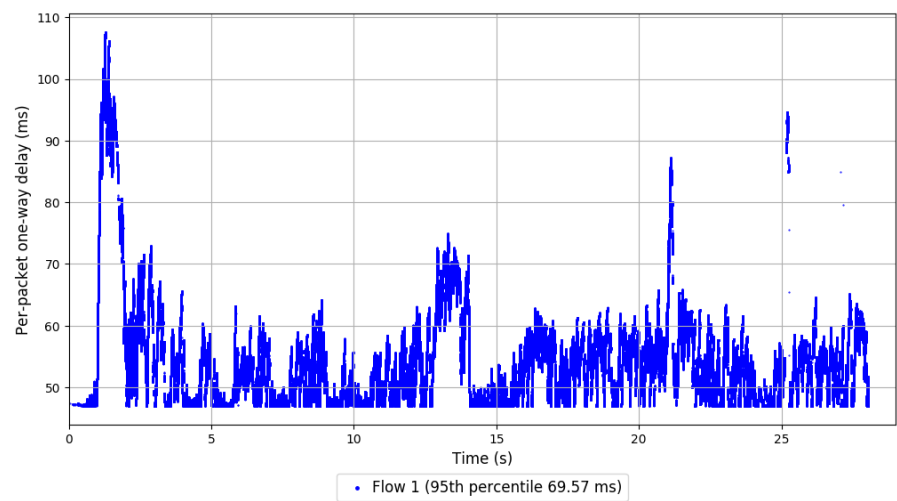
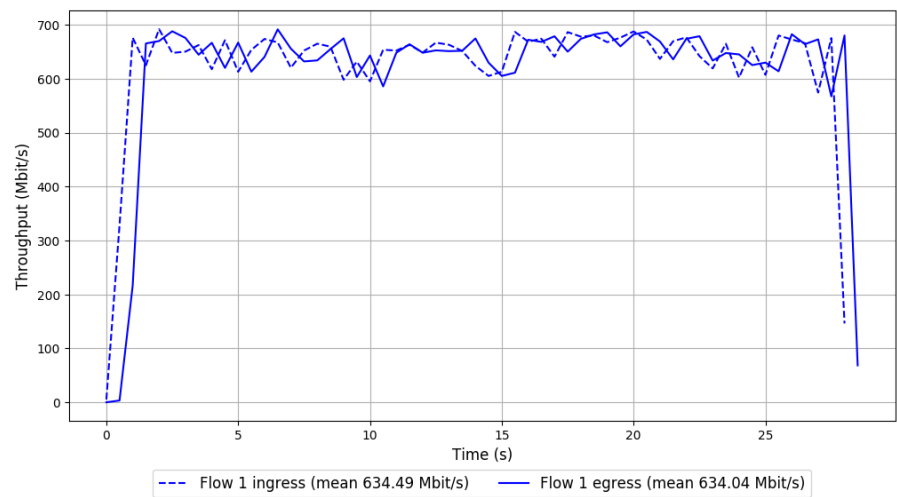
-- Flow 1:

Average throughput: 634.04 Mbit/s

95th percentile per-packet one-way delay: 69.569 ms

Loss rate: 0.41%

Run 1: Report of Indigo-MusesC5 — Data Link





Run 2: Statistics of Indigo-MusesC5

Start at: 2019-10-03 18:14:02

End at: 2019-10-03 18:14:32

Local clock offset: -0.061 ms

Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2019-10-03 21:26:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 622.12 Mbit/s

95th percentile per-packet one-way delay: 64.310 ms

Loss rate: 0.39%

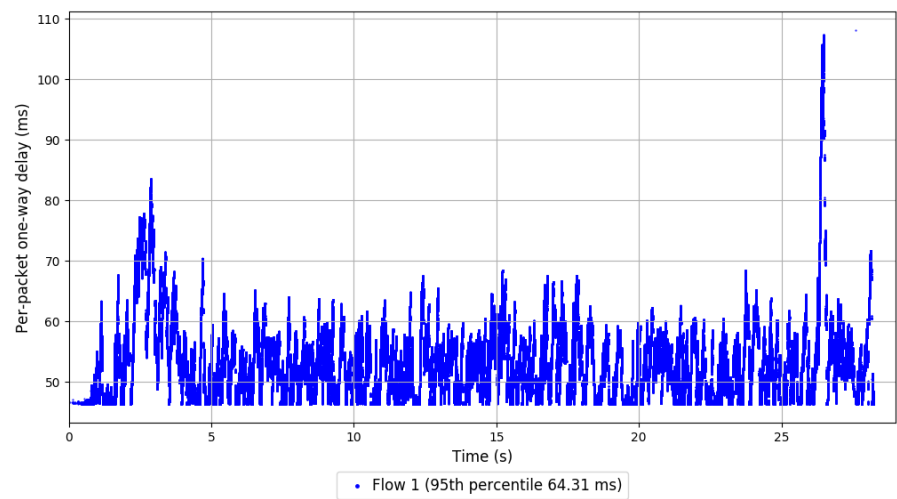
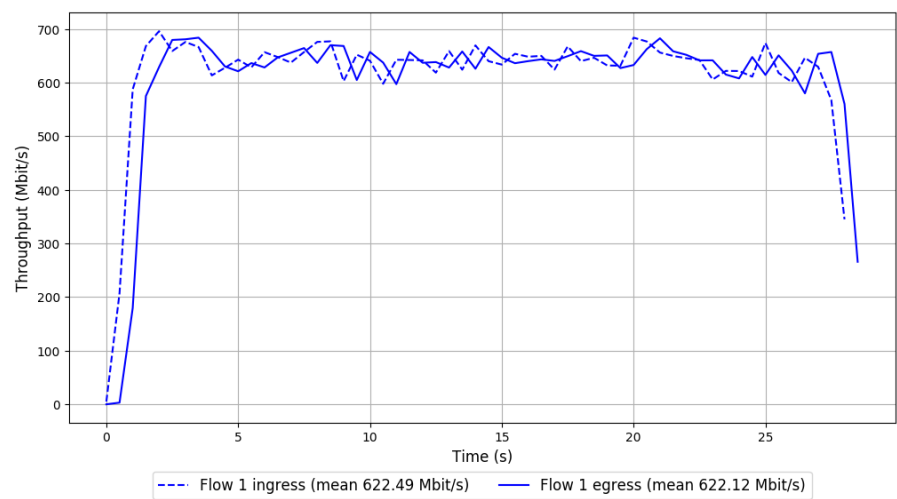
-- Flow 1:

Average throughput: 622.12 Mbit/s

95th percentile per-packet one-way delay: 64.310 ms

Loss rate: 0.39%

Run 2: Report of Indigo-MusesC5 — Data Link

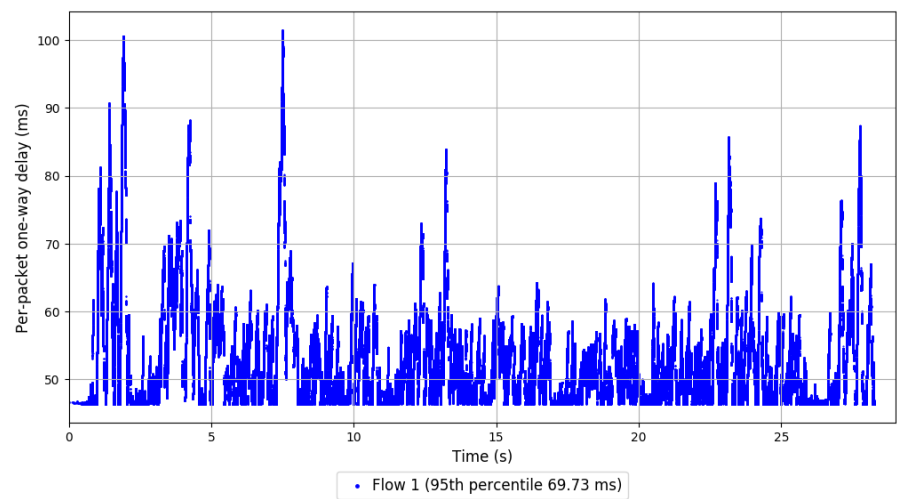
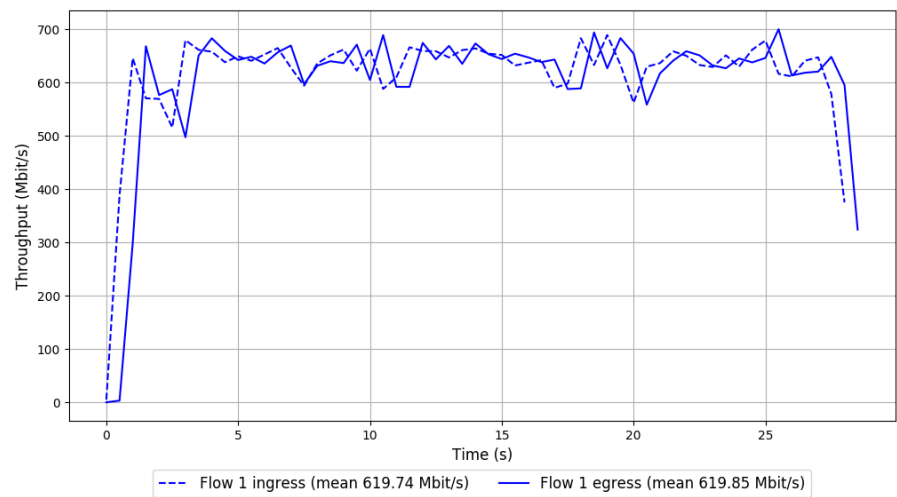


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-10-03 18:48:46  
End at: 2019-10-03 18:49:16  
Local clock offset: -0.053 ms  
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-10-03 21:29:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 619.85 Mbit/s  
95th percentile per-packet one-way delay: 69.731 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 619.85 Mbit/s  
95th percentile per-packet one-way delay: 69.731 ms  
Loss rate: 0.31%

Run 3: Report of Indigo-MusesC5 — Data Link

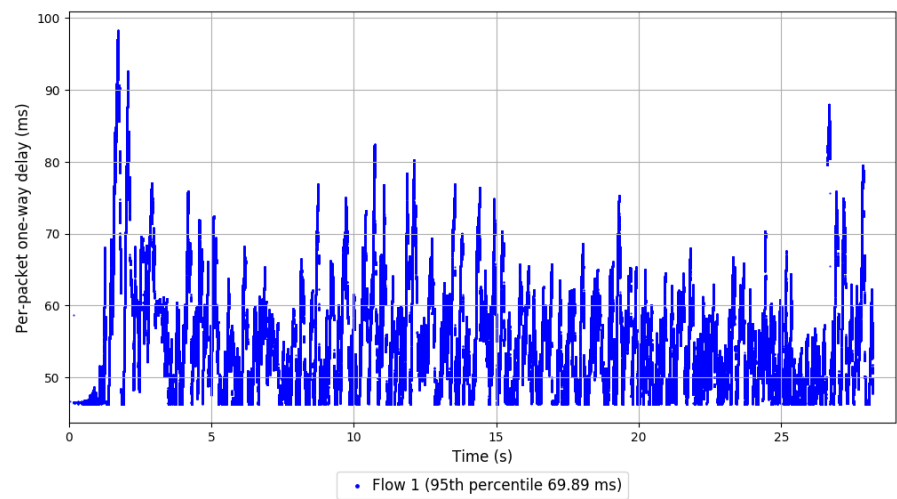
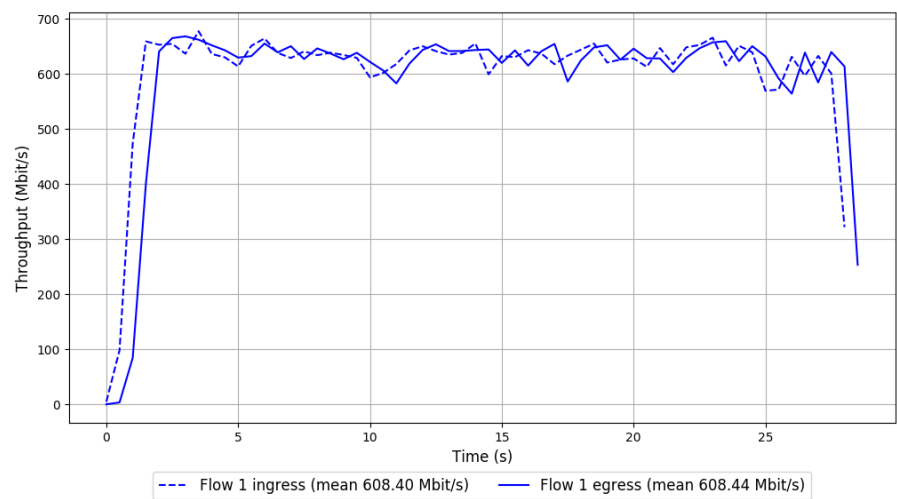


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-10-03 19:23:46  
End at: 2019-10-03 19:24:16  
Local clock offset: -0.048 ms  
Remote clock offset: -0.152 ms

# Below is generated by plot.py at 2019-10-03 21:30:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 608.44 Mbit/s  
95th percentile per-packet one-way delay: 69.889 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 608.44 Mbit/s  
95th percentile per-packet one-way delay: 69.889 ms  
Loss rate: 0.33%

Run 4: Report of Indigo-MusesC5 — Data Link

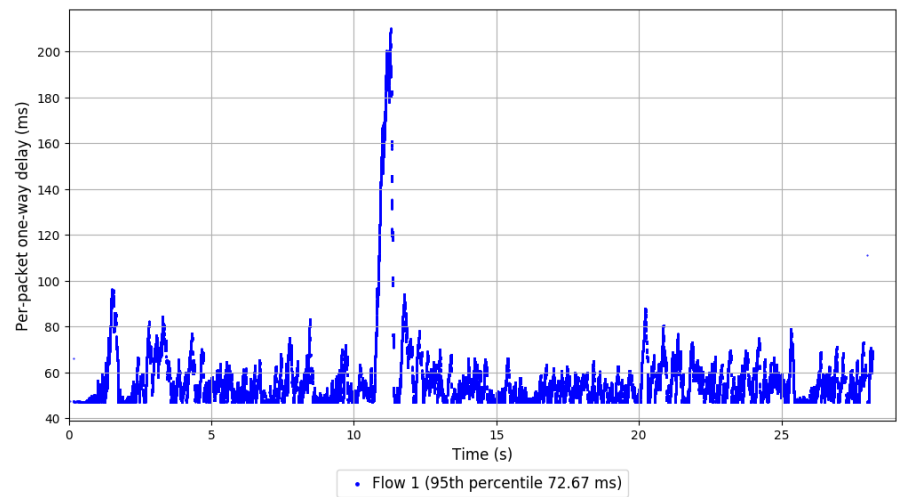
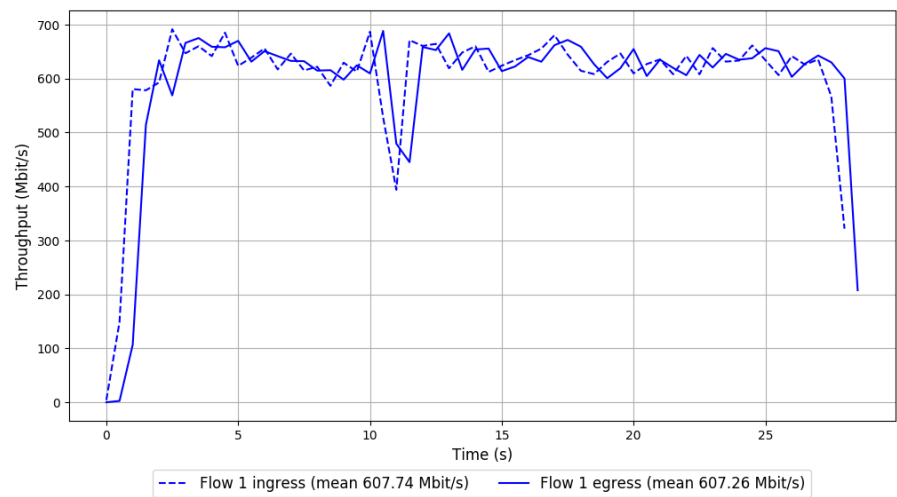


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-10-03 19:58:48  
End at: 2019-10-03 19:59:18  
Local clock offset: -0.067 ms  
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2019-10-03 21:34:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 607.26 Mbit/s  
95th percentile per-packet one-way delay: 72.665 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 607.26 Mbit/s  
95th percentile per-packet one-way delay: 72.665 ms  
Loss rate: 0.41%

Run 5: Report of Indigo-MusesC5 — Data Link



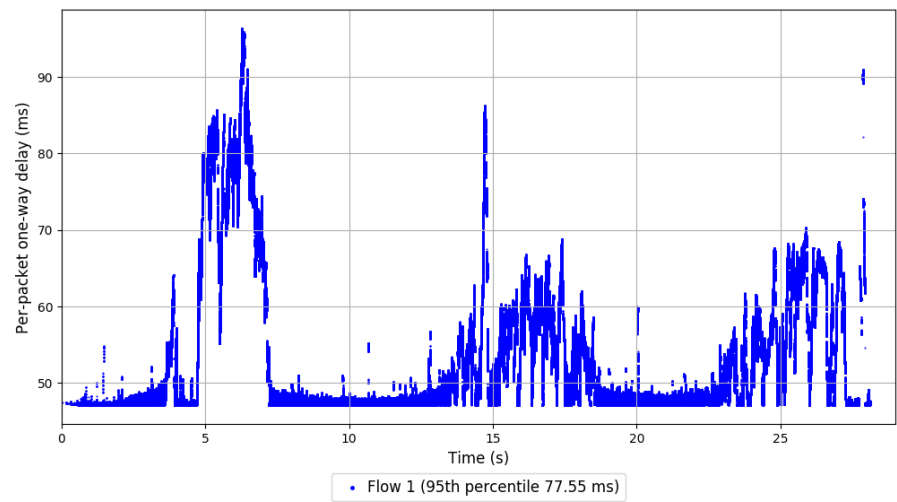
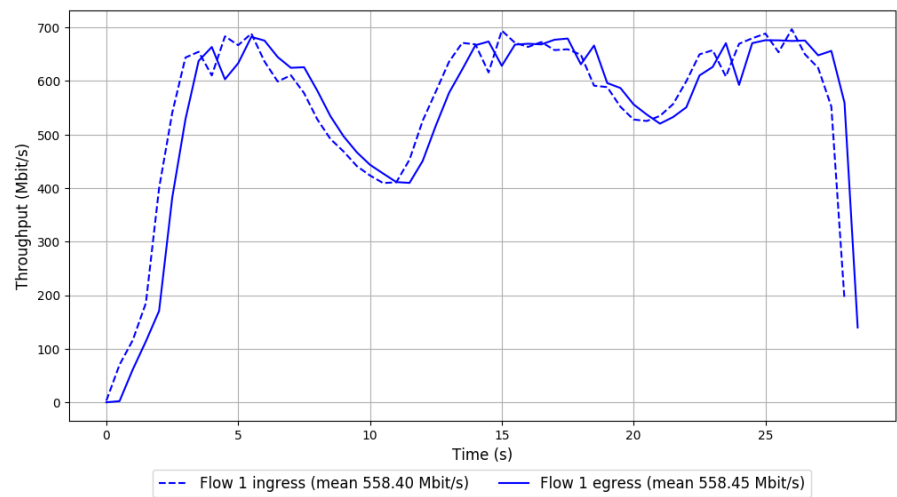


Run 1: Statistics of Indigo-MusesD

Start at: 2019-10-03 17:40:41  
End at: 2019-10-03 17:41:11  
Local clock offset: 0.007 ms  
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2019-10-03 21:34:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 558.45 Mbit/s  
95th percentile per-packet one-way delay: 77.553 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 558.45 Mbit/s  
95th percentile per-packet one-way delay: 77.553 ms  
Loss rate: 0.33%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-10-03 18:15:38

End at: 2019-10-03 18:16:08

Local clock offset: -0.017 ms

Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2019-10-03 21:35:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 566.73 Mbit/s

95th percentile per-packet one-way delay: 72.241 ms

Loss rate: 0.31%

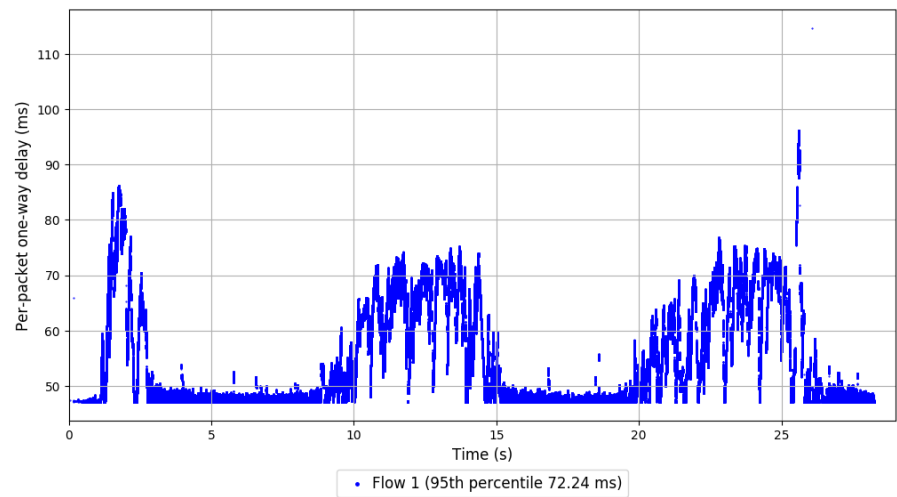
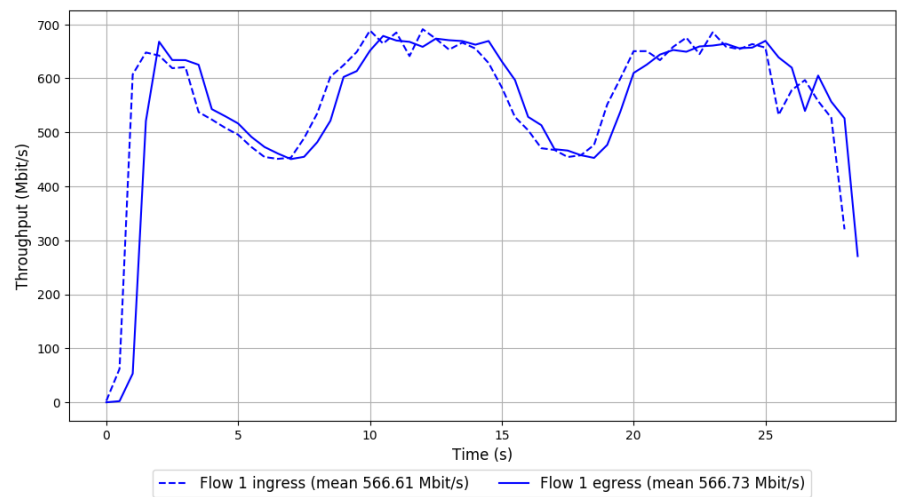
-- Flow 1:

Average throughput: 566.73 Mbit/s

95th percentile per-packet one-way delay: 72.241 ms

Loss rate: 0.31%

Run 2: Report of Indigo-MusesD — Data Link

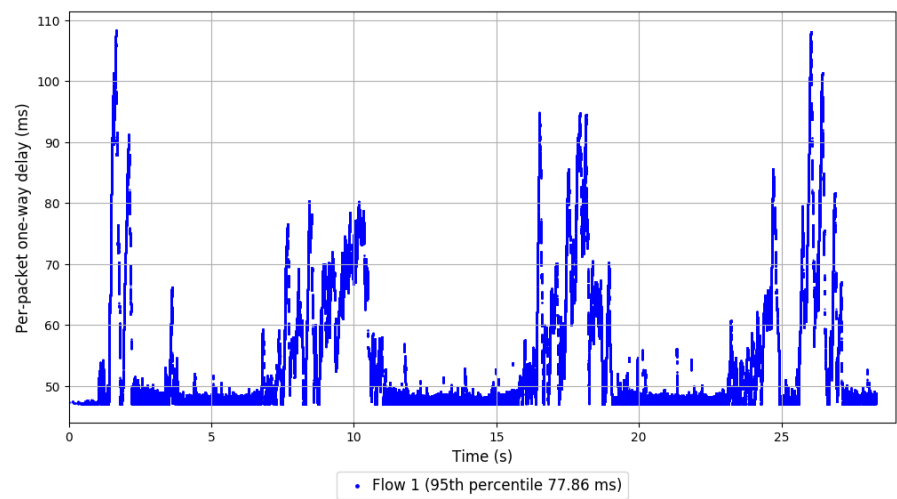
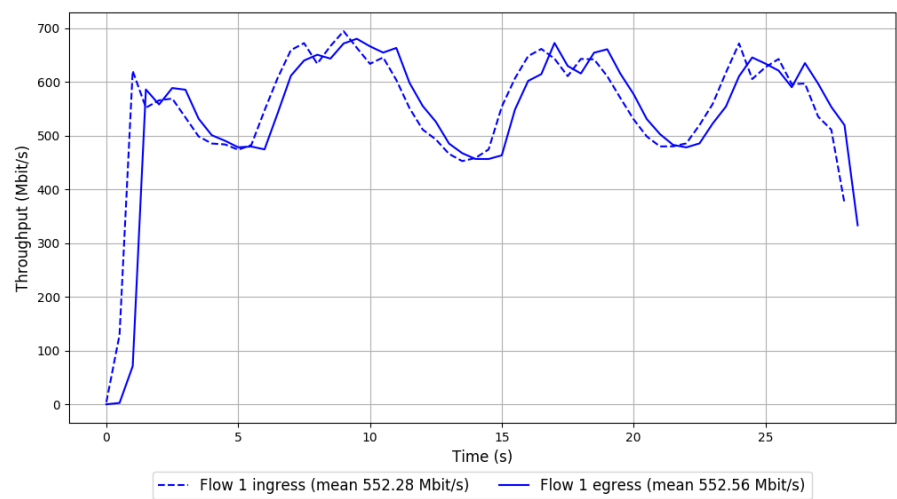


Run 3: Statistics of Indigo-MusesD

Start at: 2019-10-03 18:50:20  
End at: 2019-10-03 18:50:51  
Local clock offset: -0.062 ms  
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-10-03 21:35:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 552.56 Mbit/s  
95th percentile per-packet one-way delay: 77.859 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 552.56 Mbit/s  
95th percentile per-packet one-way delay: 77.859 ms  
Loss rate: 0.28%

Run 3: Report of Indigo-MusesD — Data Link

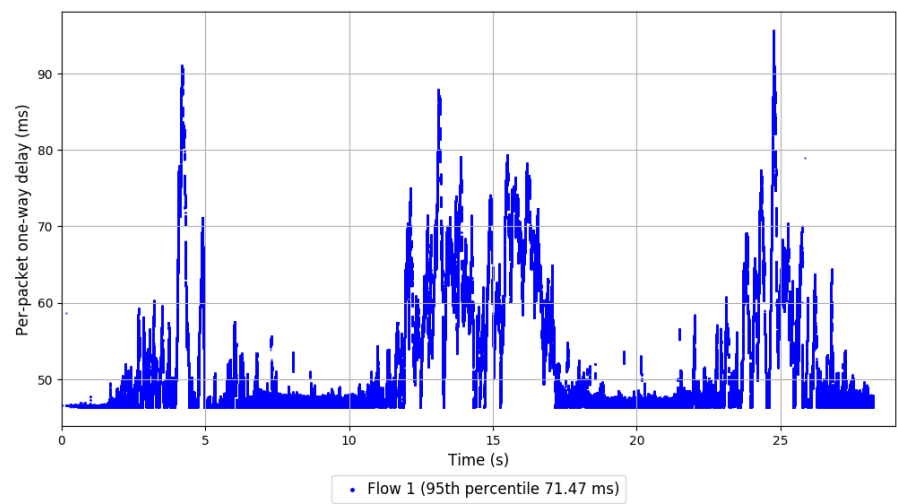
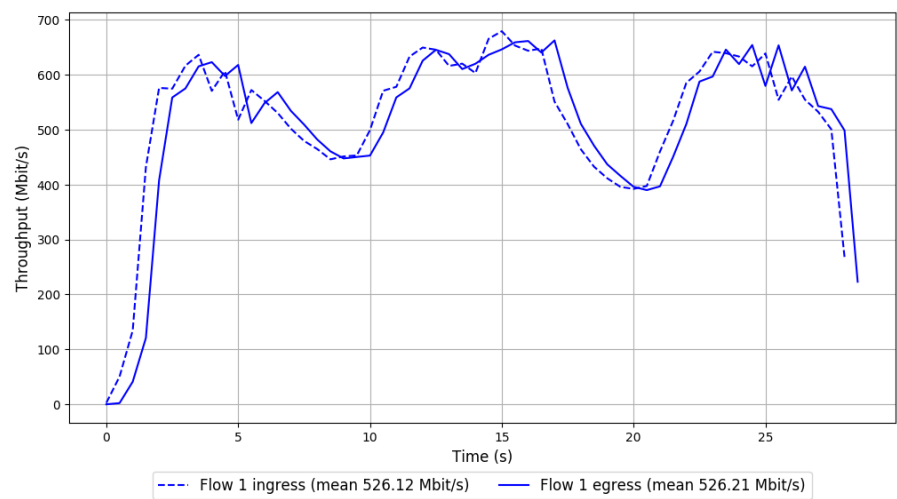


Run 4: Statistics of Indigo-MusesD

Start at: 2019-10-03 19:25:20  
End at: 2019-10-03 19:25:50  
Local clock offset: -0.015 ms  
Remote clock offset: -0.143 ms

# Below is generated by plot.py at 2019-10-03 21:36:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 526.21 Mbit/s  
95th percentile per-packet one-way delay: 71.472 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 526.21 Mbit/s  
95th percentile per-packet one-way delay: 71.472 ms  
Loss rate: 0.32%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-10-03 20:00:22

End at: 2019-10-03 20:00:52

Local clock offset: -0.048 ms

Remote clock offset: -0.152 ms

# Below is generated by plot.py at 2019-10-03 21:37:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 550.54 Mbit/s

95th percentile per-packet one-way delay: 77.209 ms

Loss rate: 0.44%

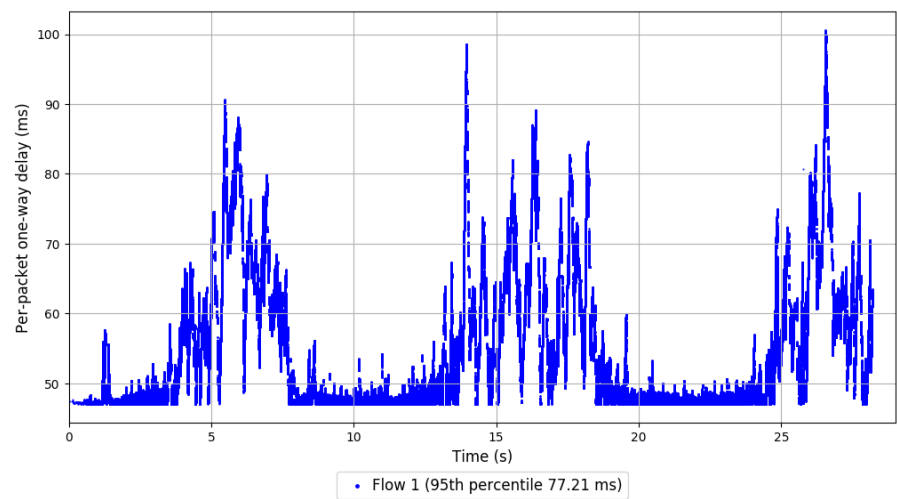
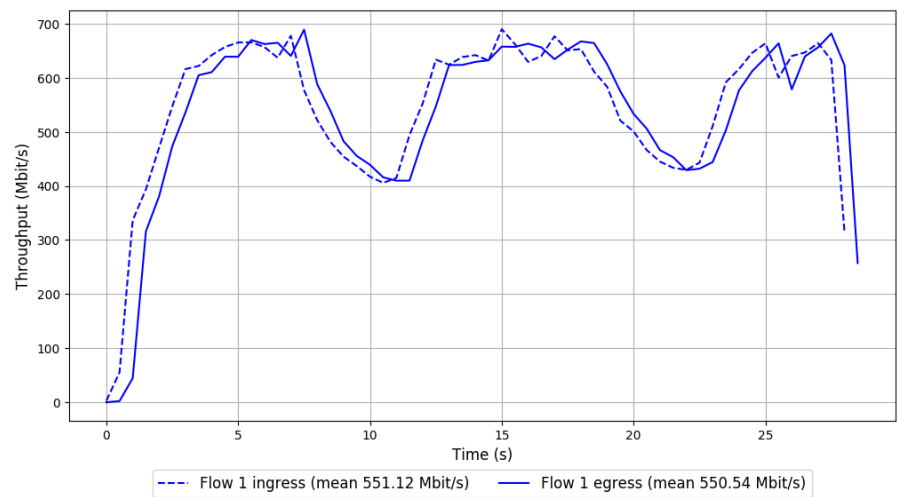
-- Flow 1:

Average throughput: 550.54 Mbit/s

95th percentile per-packet one-way delay: 77.209 ms

Loss rate: 0.44%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-10-03 17:50:48

End at: 2019-10-03 17:51:19

Local clock offset: 0.409 ms

Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2019-10-03 21:41:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 641.94 Mbit/s

95th percentile per-packet one-way delay: 85.483 ms

Loss rate: 0.43%

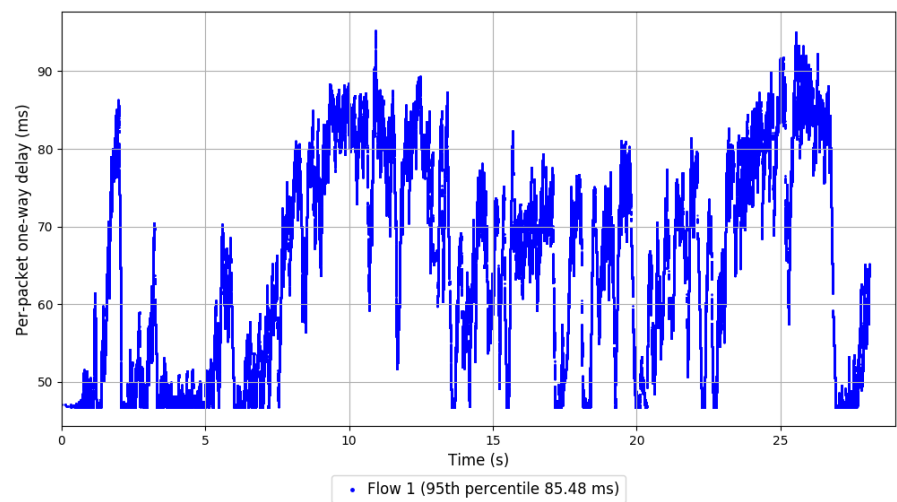
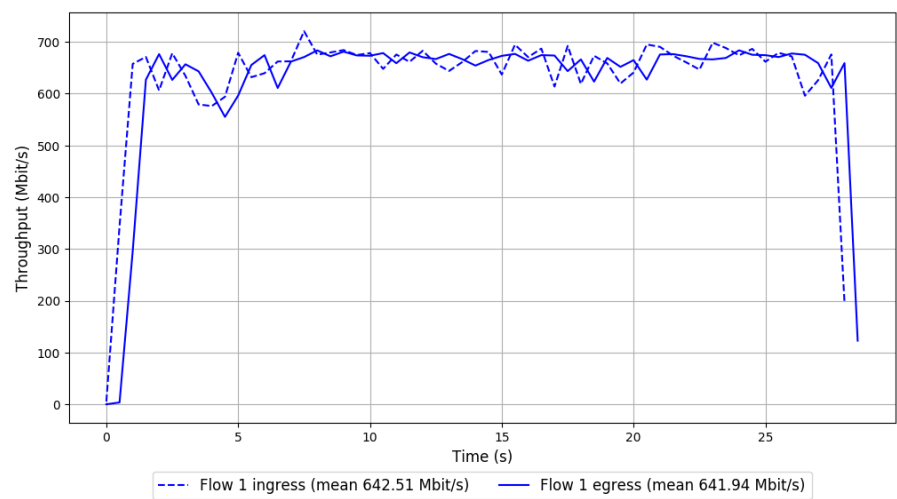
-- Flow 1:

Average throughput: 641.94 Mbit/s

95th percentile per-packet one-way delay: 85.483 ms

Loss rate: 0.43%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-10-03 18:25:38

End at: 2019-10-03 18:26:08

Local clock offset: -0.034 ms

Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-10-03 21:42:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 633.68 Mbit/s

95th percentile per-packet one-way delay: 91.629 ms

Loss rate: 0.46%

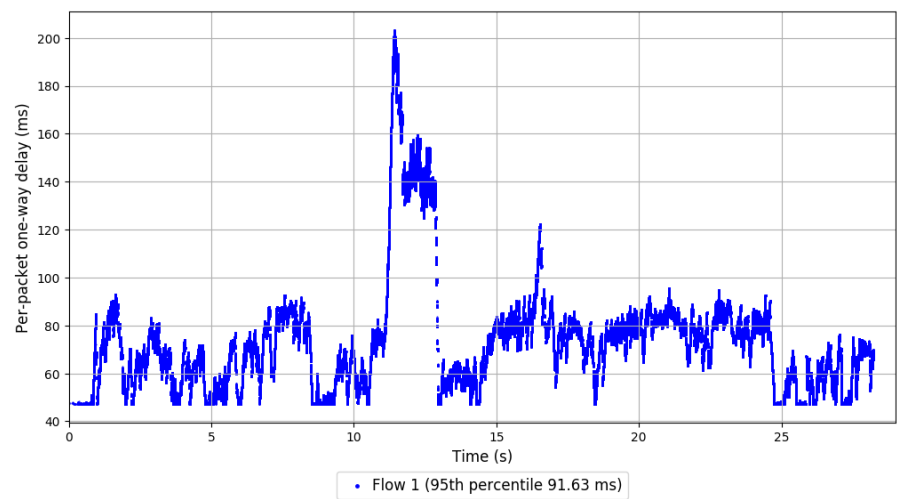
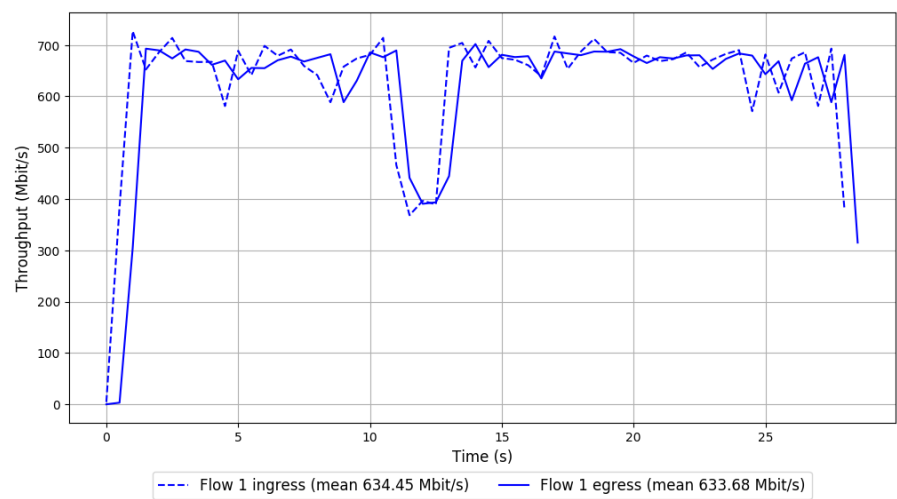
-- Flow 1:

Average throughput: 633.68 Mbit/s

95th percentile per-packet one-way delay: 91.629 ms

Loss rate: 0.46%

Run 2: Report of Indigo-MusesT — Data Link

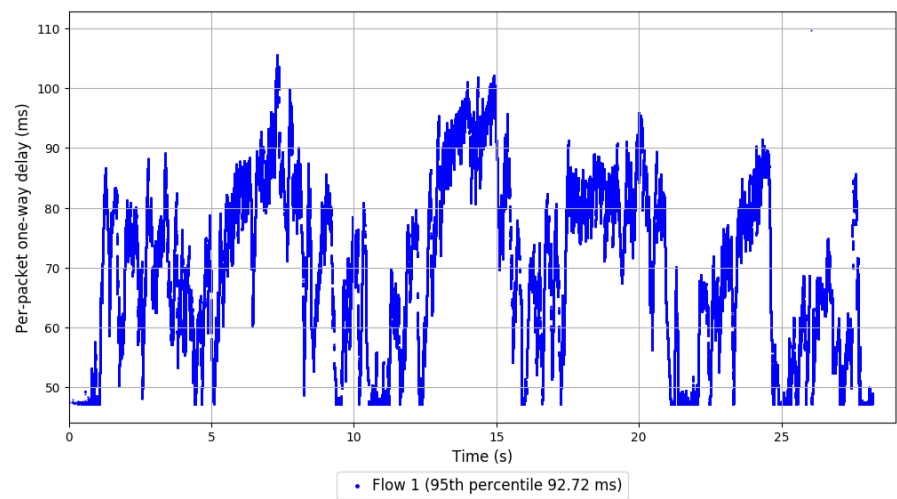
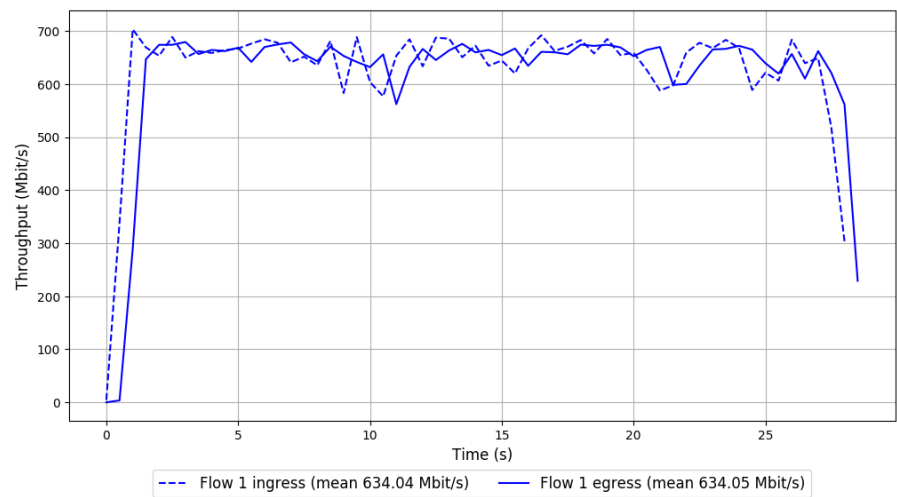


Run 3: Statistics of Indigo-MusesT

Start at: 2019-10-03 19:00:26  
End at: 2019-10-03 19:00:56  
Local clock offset: -0.033 ms  
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2019-10-03 21:45:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 634.05 Mbit/s  
95th percentile per-packet one-way delay: 92.718 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 634.05 Mbit/s  
95th percentile per-packet one-way delay: 92.718 ms  
Loss rate: 0.34%

Run 3: Report of Indigo-MusesT — Data Link



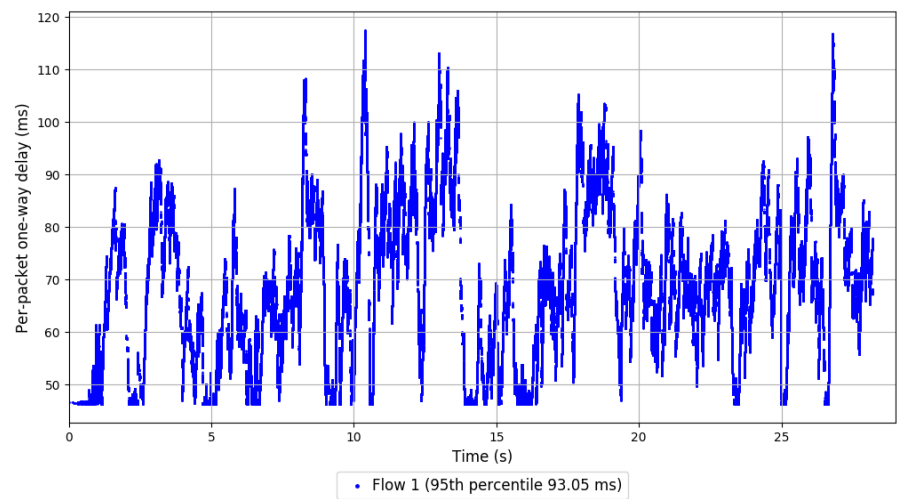
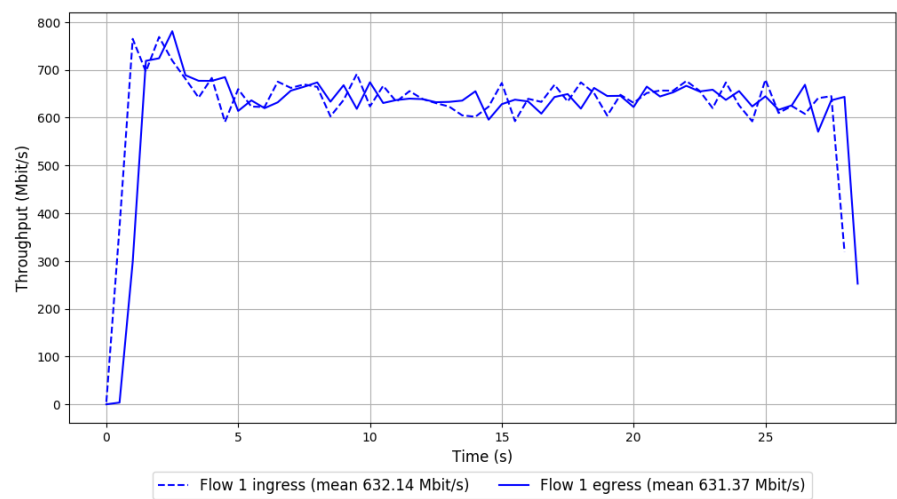


Run 4: Statistics of Indigo-MusesT

Start at: 2019-10-03 19:35:27  
End at: 2019-10-03 19:35:57  
Local clock offset: -0.013 ms  
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2019-10-03 21:45:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 631.37 Mbit/s  
95th percentile per-packet one-way delay: 93.053 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 631.37 Mbit/s  
95th percentile per-packet one-way delay: 93.053 ms  
Loss rate: 0.45%

Run 4: Report of Indigo-MusesT — Data Link

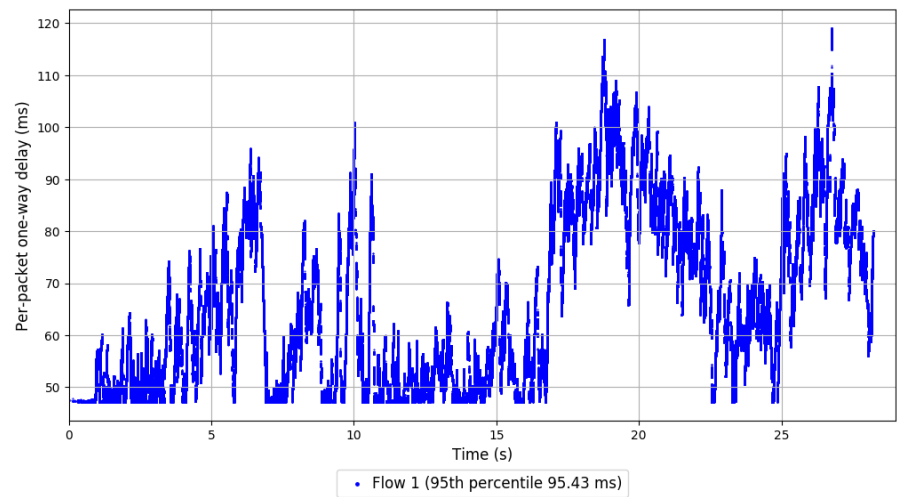
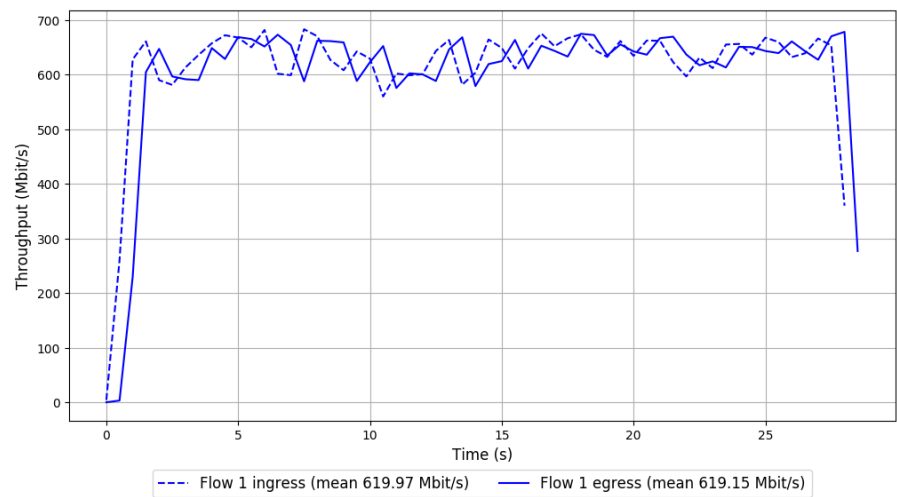


Run 5: Statistics of Indigo-MusesT

Start at: 2019-10-03 20:10:35  
End at: 2019-10-03 20:11:05  
Local clock offset: -0.062 ms  
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2019-10-03 21:46:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 619.15 Mbit/s  
95th percentile per-packet one-way delay: 95.431 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 619.15 Mbit/s  
95th percentile per-packet one-way delay: 95.431 ms  
Loss rate: 0.47%

Run 5: Report of Indigo-MusesT — Data Link

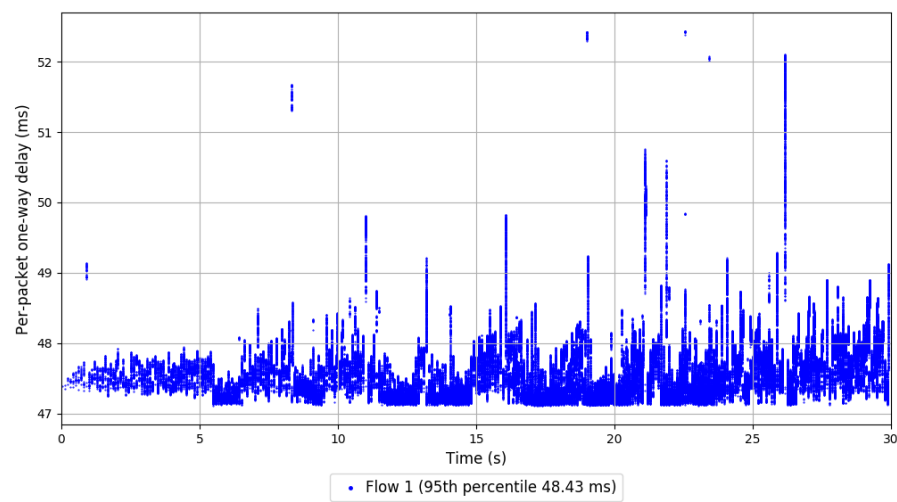
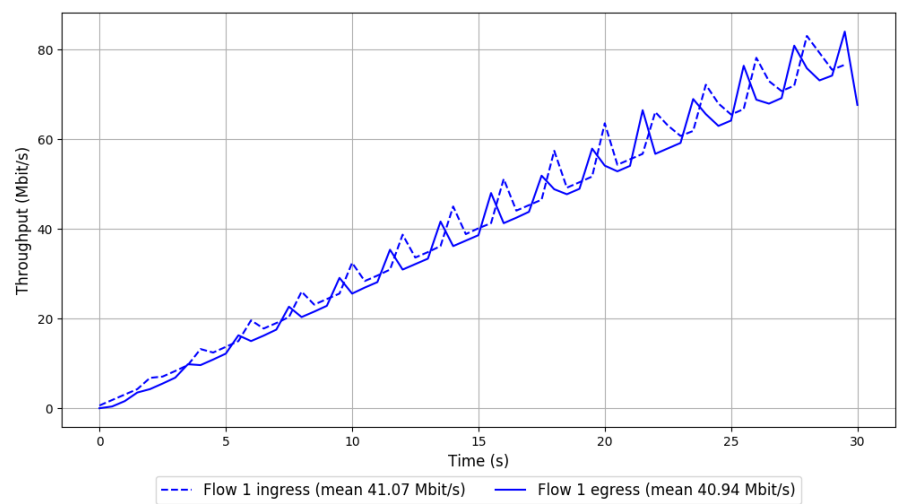


Run 1: Statistics of LEDBAT

Start at: 2019-10-03 17:34:58  
End at: 2019-10-03 17:35:28  
Local clock offset: -0.025 ms  
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2019-10-03 21:46:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 40.94 Mbit/s  
95th percentile per-packet one-way delay: 48.430 ms  
Loss rate: 0.63%  
-- Flow 1:  
Average throughput: 40.94 Mbit/s  
95th percentile per-packet one-way delay: 48.430 ms  
Loss rate: 0.63%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-10-03 18:09:47

End at: 2019-10-03 18:10:17

Local clock offset: -0.021 ms

Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-10-03 21:46:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 36.68 Mbit/s

95th percentile per-packet one-way delay: 47.700 ms

Loss rate: 0.12%

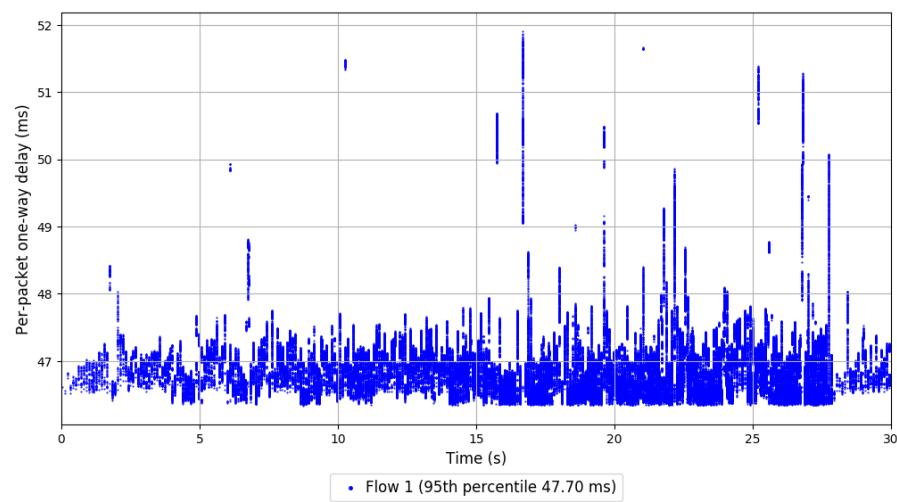
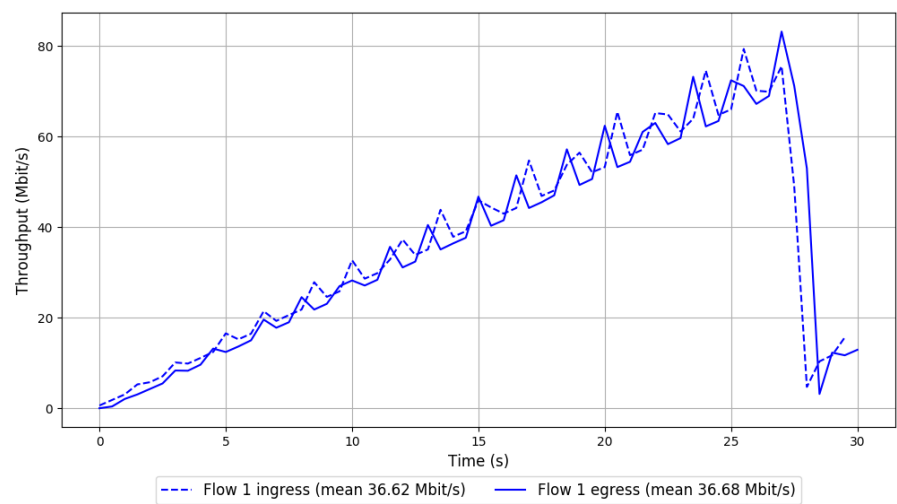
-- Flow 1:

Average throughput: 36.68 Mbit/s

95th percentile per-packet one-way delay: 47.700 ms

Loss rate: 0.12%

Run 2: Report of LEDBAT — Data Link



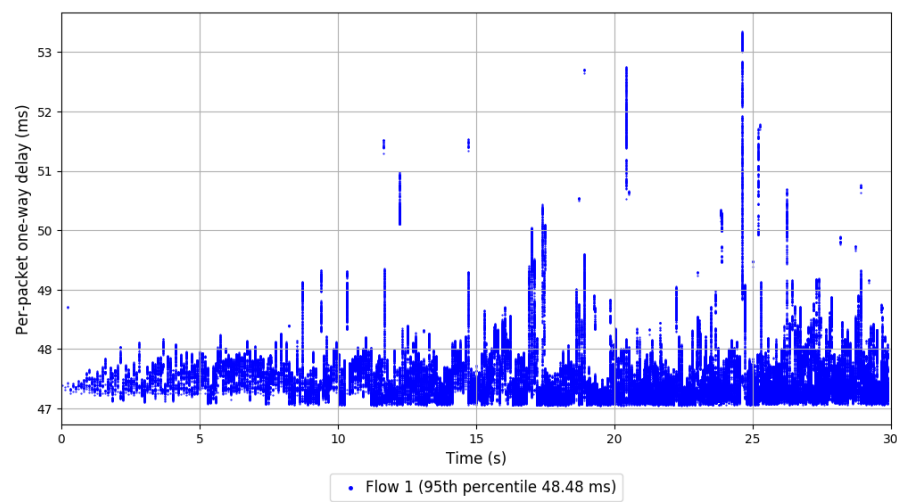
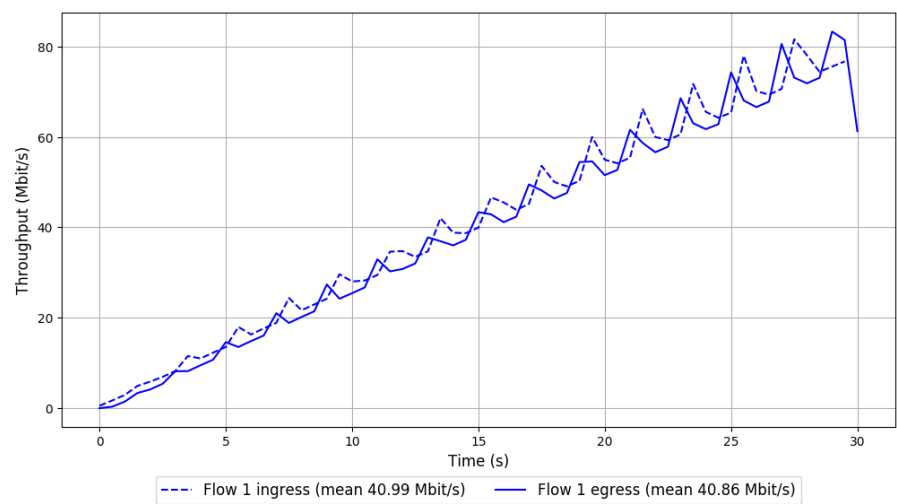


Run 3: Statistics of LEDBAT

Start at: 2019-10-03 18:44:34  
End at: 2019-10-03 18:45:04  
Local clock offset: -0.043 ms  
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2019-10-03 21:46:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 40.86 Mbit/s  
95th percentile per-packet one-way delay: 48.479 ms  
Loss rate: 0.63%  
-- Flow 1:  
Average throughput: 40.86 Mbit/s  
95th percentile per-packet one-way delay: 48.479 ms  
Loss rate: 0.63%

Run 3: Report of LEDBAT — Data Link

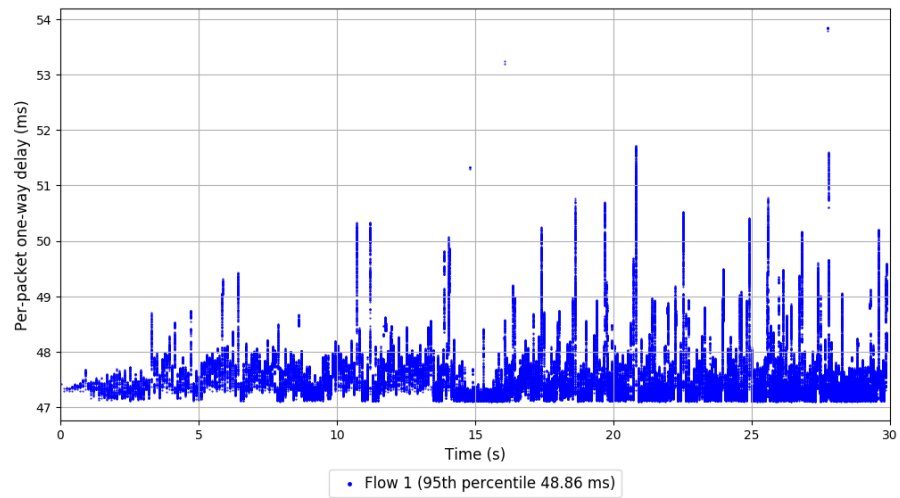
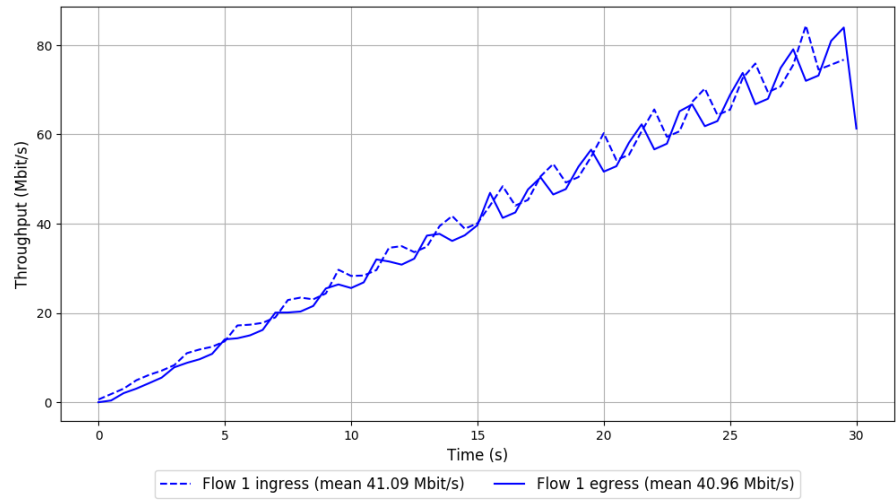


Run 4: Statistics of LEDBAT

Start at: 2019-10-03 19:19:37  
End at: 2019-10-03 19:20:07  
Local clock offset: -0.029 ms  
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2019-10-03 21:46:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 40.96 Mbit/s  
95th percentile per-packet one-way delay: 48.864 ms  
Loss rate: 0.63%  
-- Flow 1:  
Average throughput: 40.96 Mbit/s  
95th percentile per-packet one-way delay: 48.864 ms  
Loss rate: 0.63%

#### Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-10-03 19:54:36

End at: 2019-10-03 19:55:06

Local clock offset: -0.073 ms

Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2019-10-03 21:46:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 39.70 Mbit/s

95th percentile per-packet one-way delay: 50.205 ms

Loss rate: 0.64%

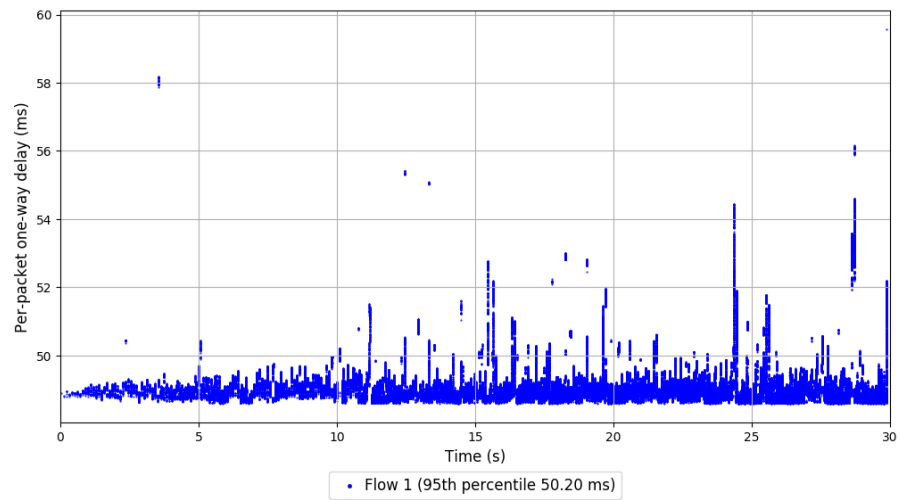
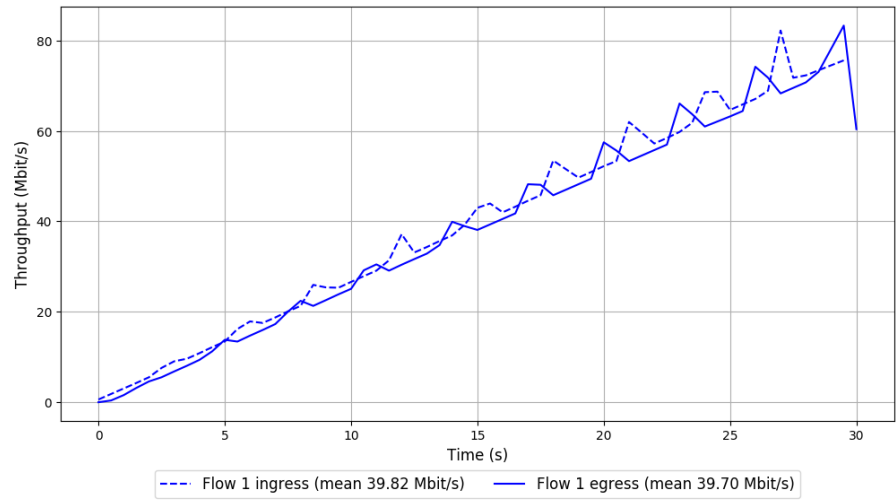
-- Flow 1:

Average throughput: 39.70 Mbit/s

95th percentile per-packet one-way delay: 50.205 ms

Loss rate: 0.64%

### Run 5: Report of LEDBAT — Data Link

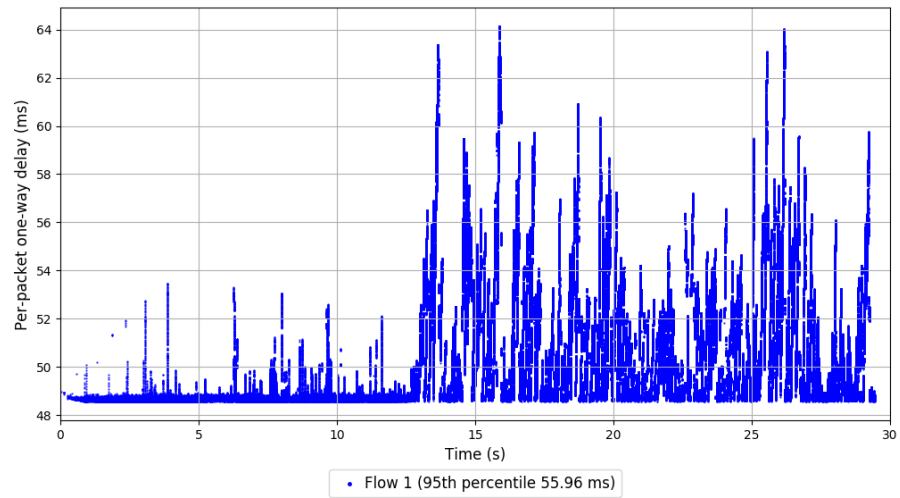
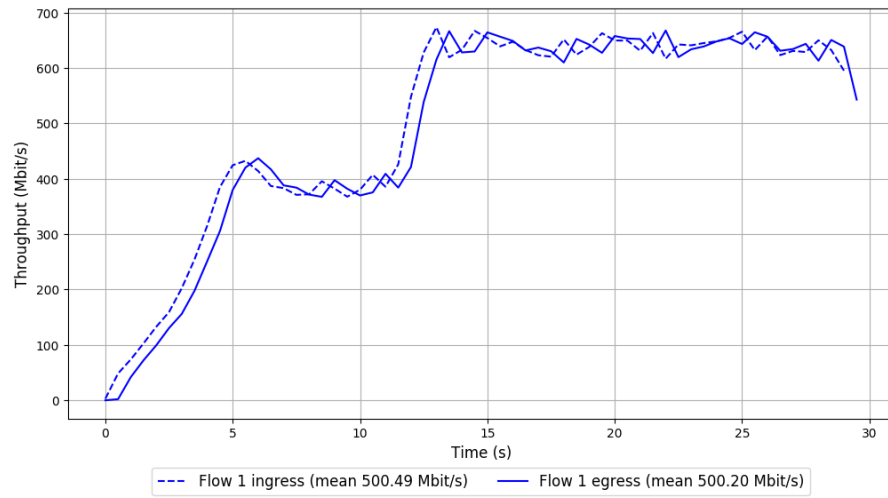


Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-10-03 17:37:34  
End at: 2019-10-03 17:38:04  
Local clock offset: -0.044 ms  
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2019-10-03 21:48:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 500.20 Mbit/s  
95th percentile per-packet one-way delay: 55.960 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 500.20 Mbit/s  
95th percentile per-packet one-way delay: 55.960 ms  
Loss rate: 0.38%

# Run 1: Report of Muses\_DecisionTree — Data Link



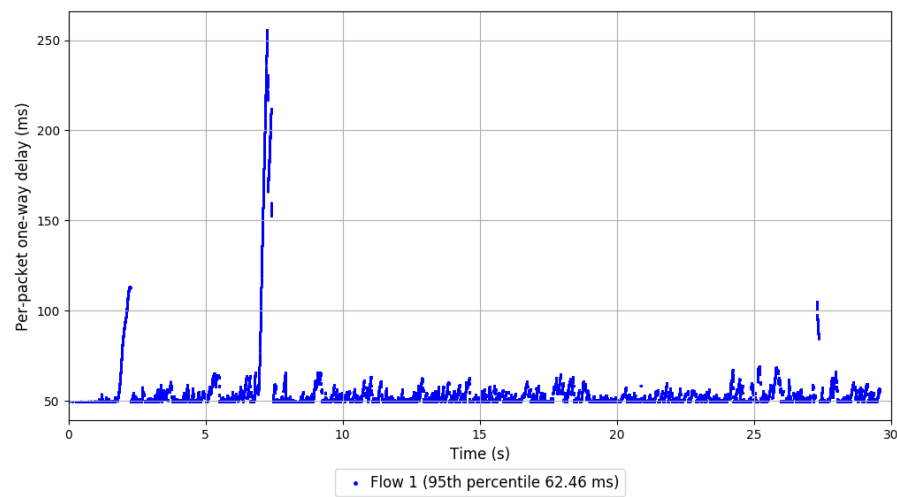
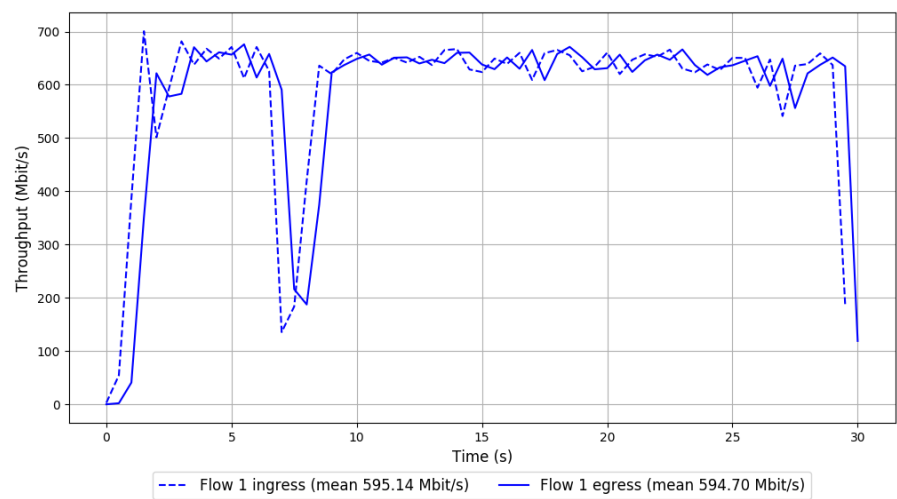


Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-10-03 18:12:26  
End at: 2019-10-03 18:12:56  
Local clock offset: -0.04 ms  
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2019-10-03 21:50:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 594.70 Mbit/s  
95th percentile per-packet one-way delay: 62.462 ms  
Loss rate: 0.40%  
-- Flow 1:  
Average throughput: 594.70 Mbit/s  
95th percentile per-packet one-way delay: 62.462 ms  
Loss rate: 0.40%

Run 2: Report of Muses\_DecisionTree — Data Link

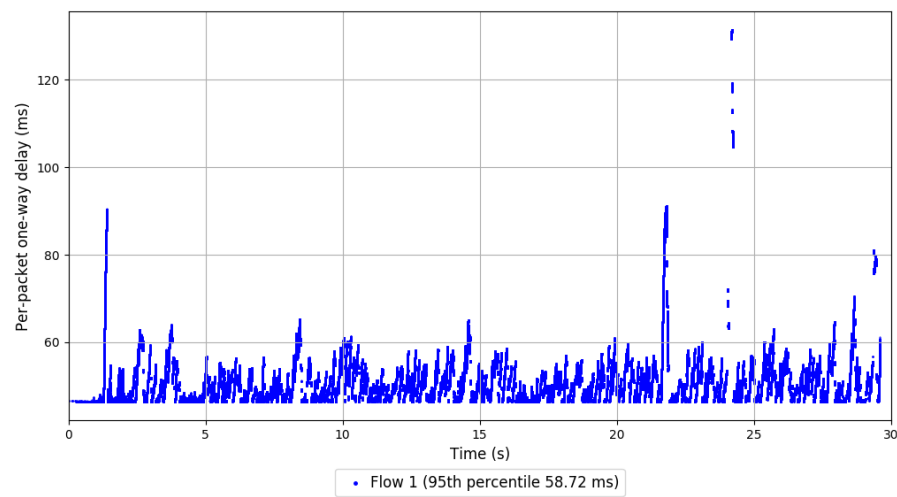
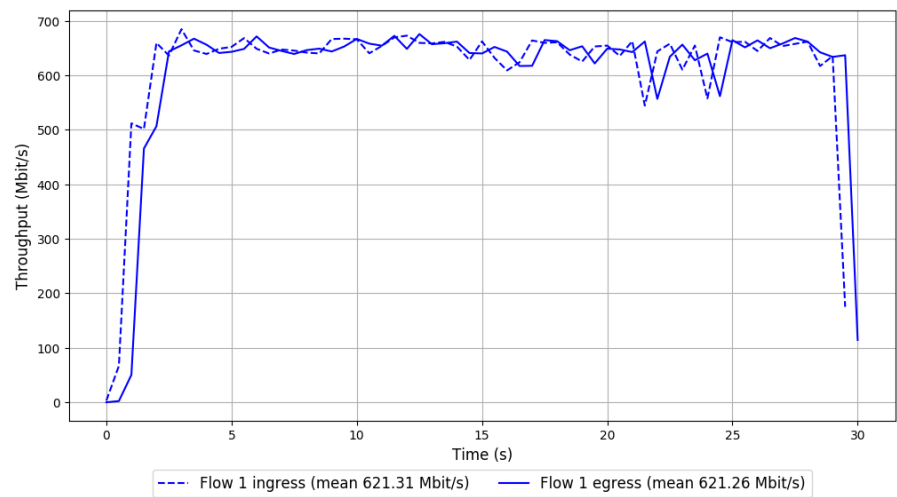


Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-10-03 18:47:09  
End at: 2019-10-03 18:47:39  
Local clock offset: -0.024 ms  
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2019-10-03 21:52:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 621.26 Mbit/s  
95th percentile per-packet one-way delay: 58.720 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 621.26 Mbit/s  
95th percentile per-packet one-way delay: 58.720 ms  
Loss rate: 0.32%

Run 3: Report of Muses\_DecisionTree — Data Link

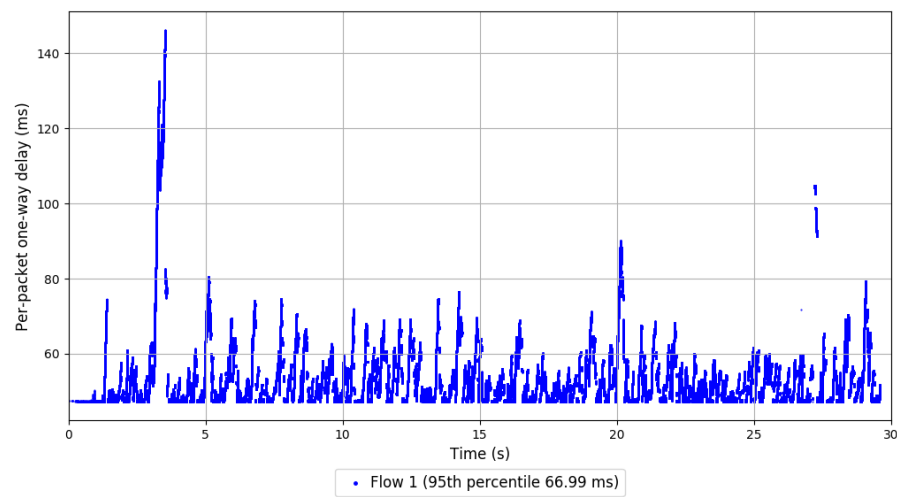
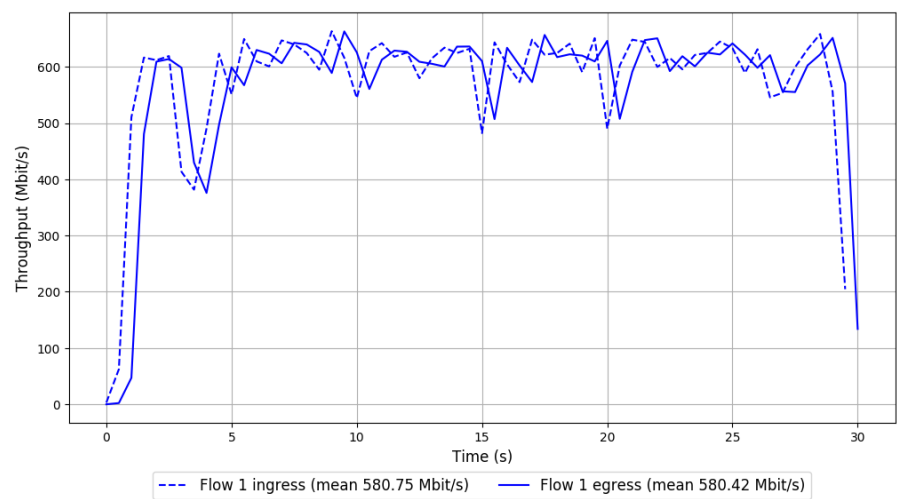


Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-10-03 19:22:11  
End at: 2019-10-03 19:22:41  
Local clock offset: -0.021 ms  
Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2019-10-03 21:53:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 580.42 Mbit/s  
95th percentile per-packet one-way delay: 66.989 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 580.42 Mbit/s  
95th percentile per-packet one-way delay: 66.989 ms  
Loss rate: 0.38%

Run 4: Report of Muses\_DecisionTree — Data Link

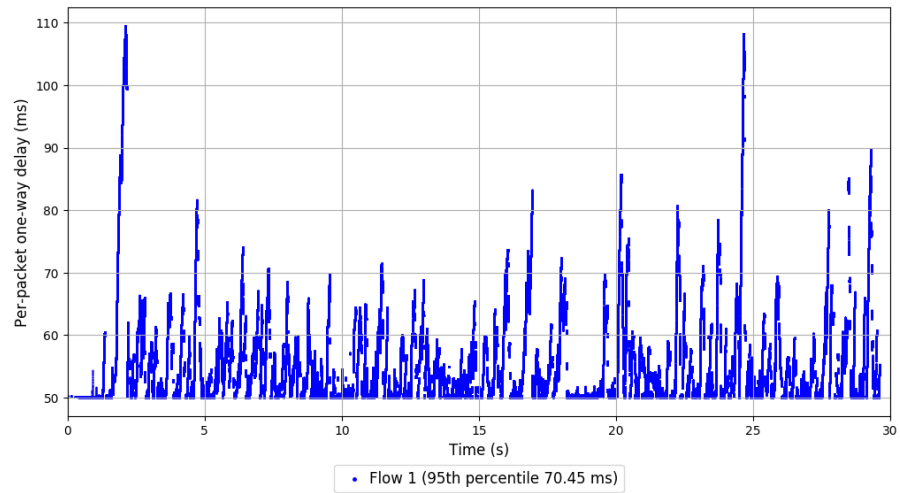
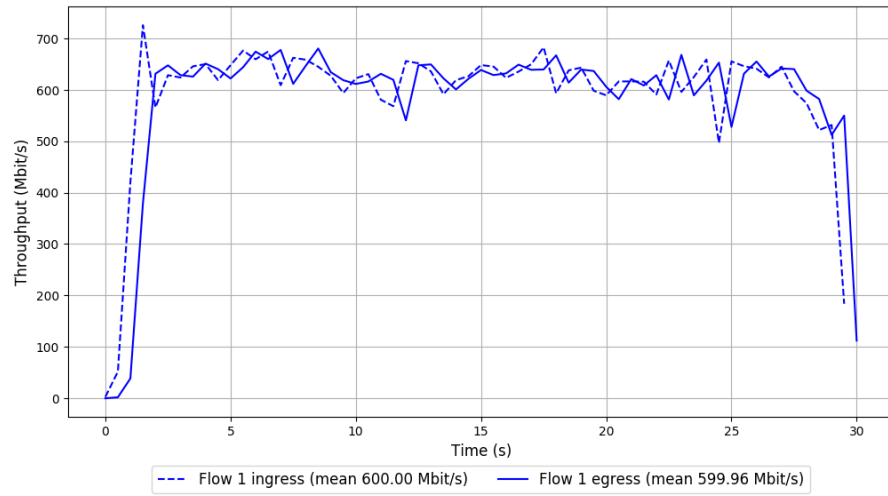


Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-10-03 19:57:12  
End at: 2019-10-03 19:57:42  
Local clock offset: -0.025 ms  
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2019-10-03 21:54:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 599.96 Mbit/s  
95th percentile per-packet one-way delay: 70.450 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 599.96 Mbit/s  
95th percentile per-packet one-way delay: 70.450 ms  
Loss rate: 0.34%

### Run 5: Report of Muses\_DecisionTree — Data Link



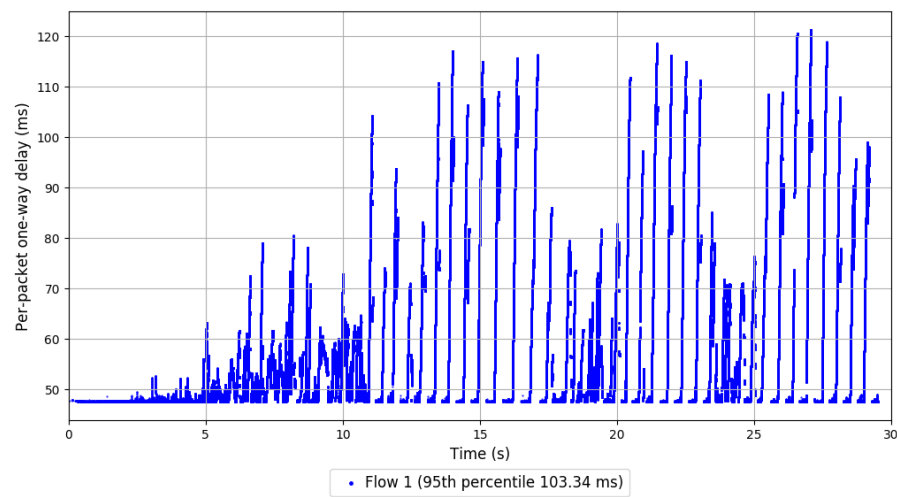
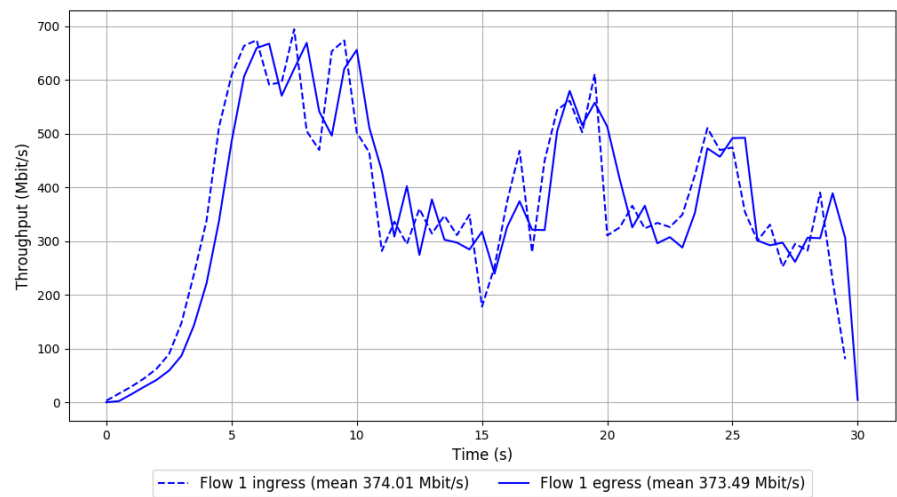


Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-03 17:36:10  
End at: 2019-10-03 17:36:40  
Local clock offset: 0.354 ms  
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2019-10-03 21:54:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 373.49 Mbit/s  
95th percentile per-packet one-way delay: 103.343 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 373.49 Mbit/s  
95th percentile per-packet one-way delay: 103.343 ms  
Loss rate: 0.46%

Run 1: Report of Muses\_DecisionTreeH0 — Data Link

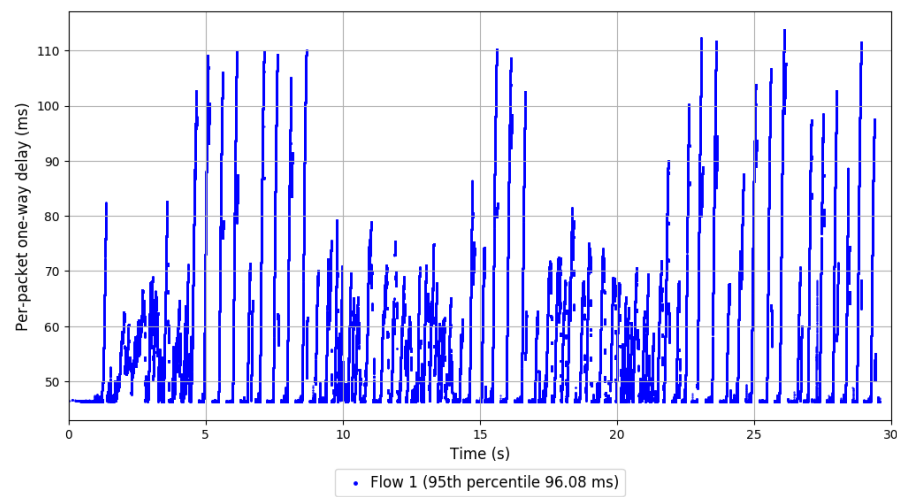
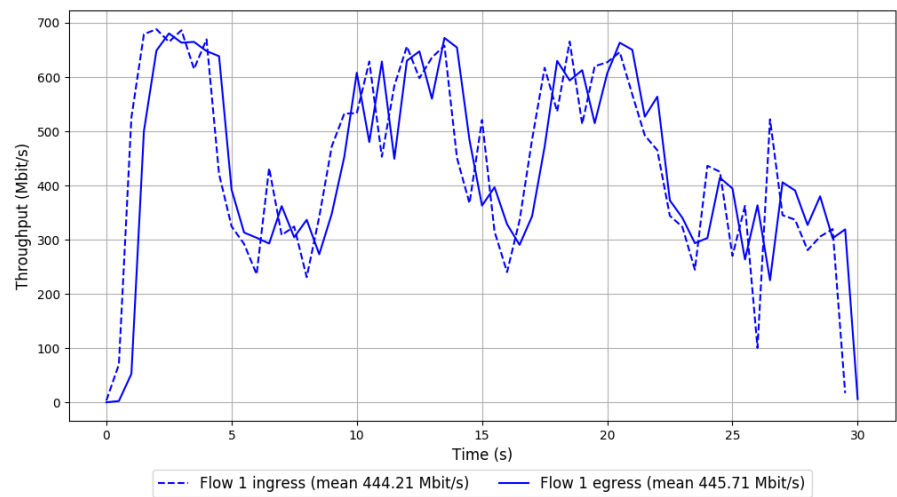


Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-03 18:10:58  
End at: 2019-10-03 18:11:28  
Local clock offset: -0.062 ms  
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-10-03 21:54:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 445.71 Mbit/s  
95th percentile per-packet one-way delay: 96.082 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 445.71 Mbit/s  
95th percentile per-packet one-way delay: 96.082 ms  
Loss rate: 0.06%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link

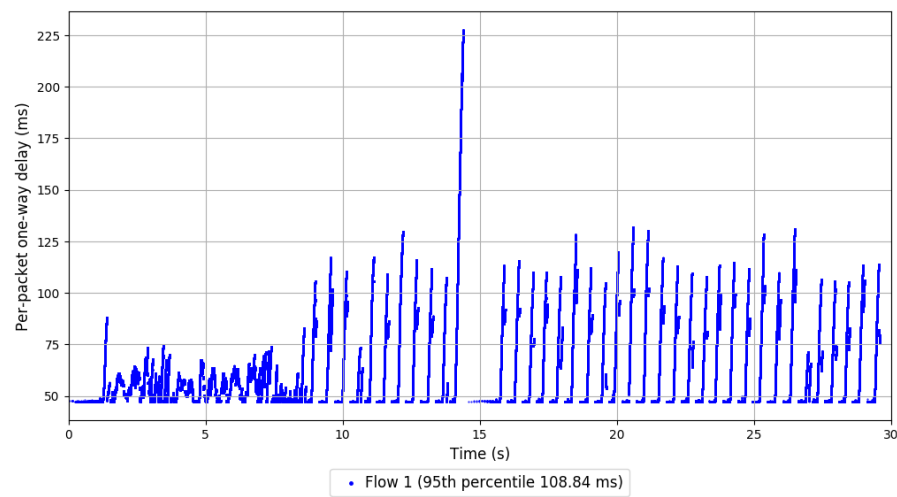
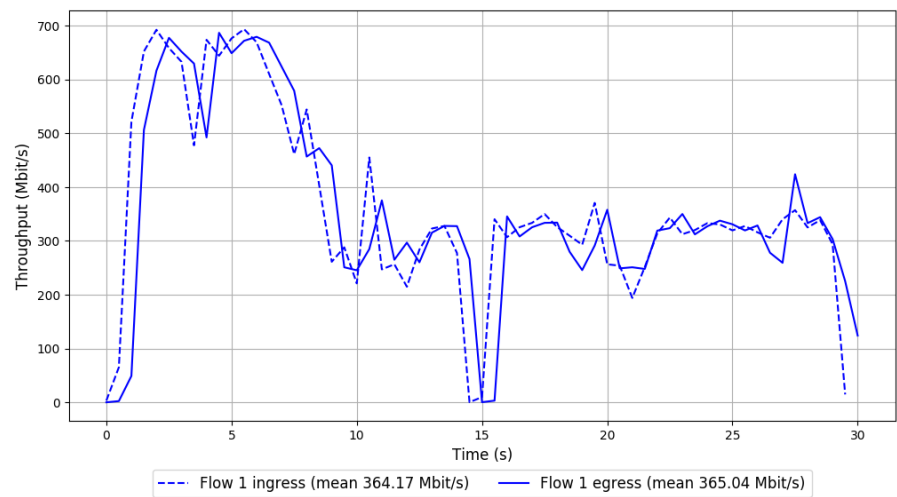


Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-03 18:45:45  
End at: 2019-10-03 18:46:15  
Local clock offset: -0.038 ms  
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-10-03 21:54:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 365.04 Mbit/s  
95th percentile per-packet one-way delay: 108.845 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 365.04 Mbit/s  
95th percentile per-packet one-way delay: 108.845 ms  
Loss rate: 0.09%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link

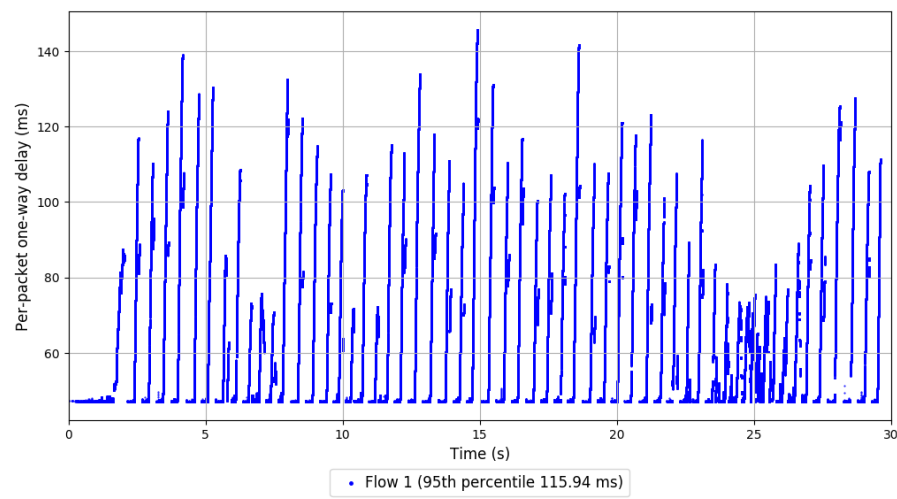
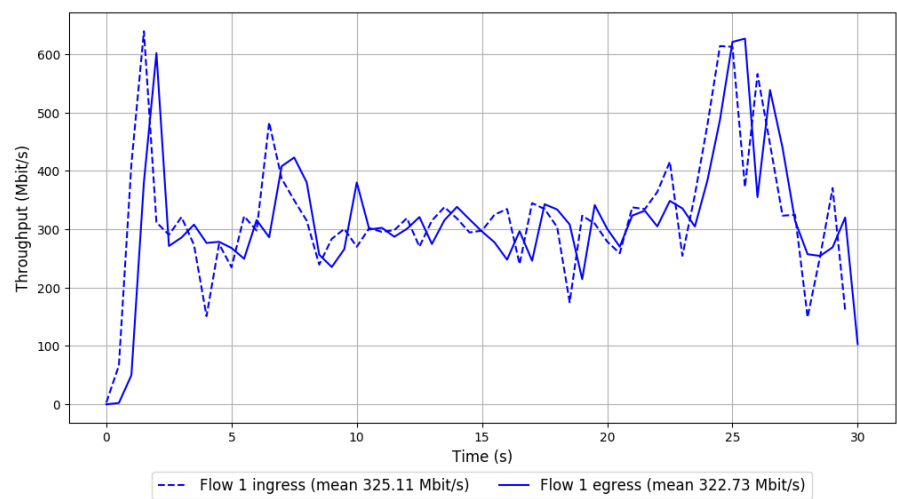


Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-03 19:20:49  
End at: 2019-10-03 19:21:19  
Local clock offset: 0.004 ms  
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2019-10-03 21:54:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 322.73 Mbit/s  
95th percentile per-packet one-way delay: 115.945 ms  
Loss rate: 0.86%  
-- Flow 1:  
Average throughput: 322.73 Mbit/s  
95th percentile per-packet one-way delay: 115.945 ms  
Loss rate: 0.86%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link



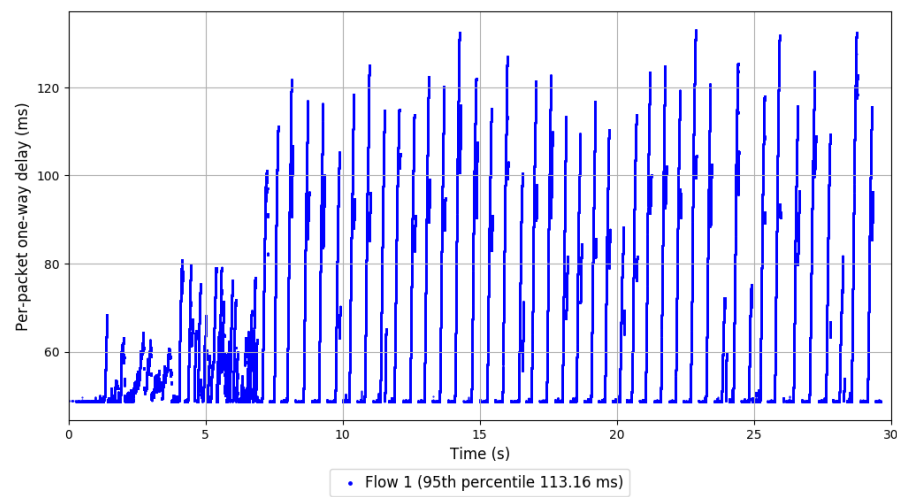
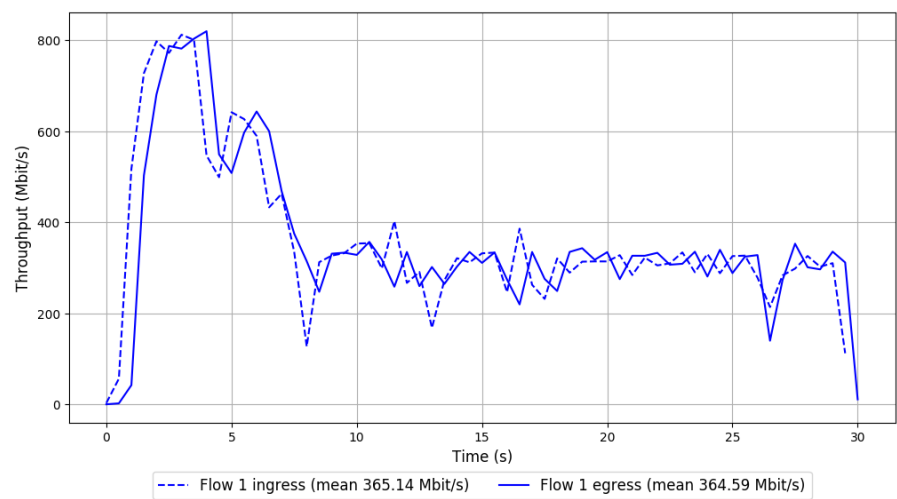


Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-03 19:55:47  
End at: 2019-10-03 19:56:17  
Local clock offset: -0.048 ms  
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2019-10-03 21:57:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 364.59 Mbit/s  
95th percentile per-packet one-way delay: 113.162 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 364.59 Mbit/s  
95th percentile per-packet one-way delay: 113.162 ms  
Loss rate: 0.47%

Run 5: Report of Muses\_DecisionTreeH0 — Data Link

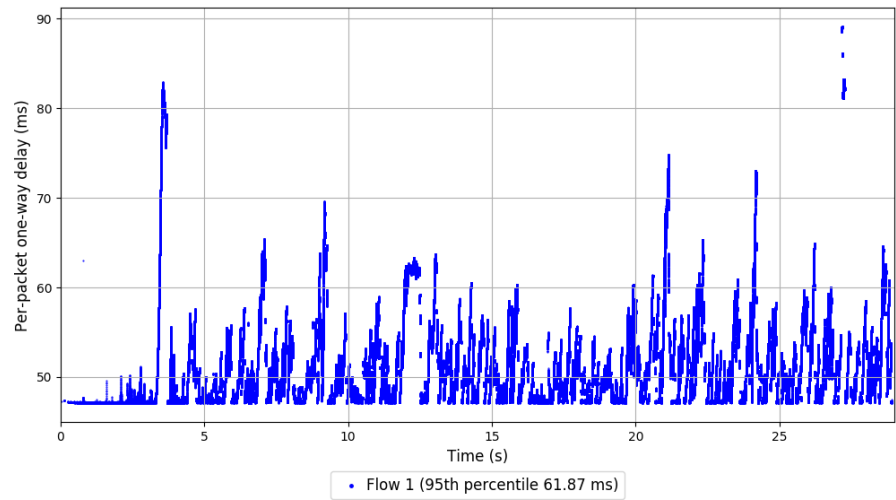
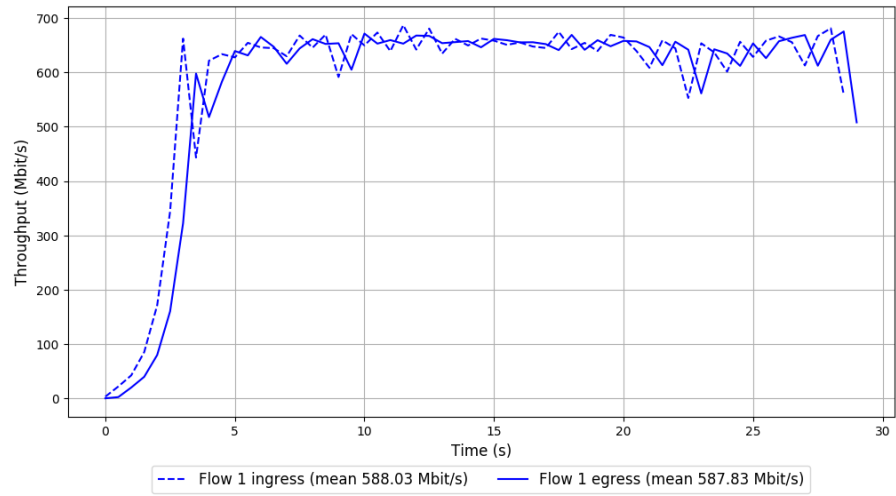


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-10-03 17:33:23
End at: 2019-10-03 17:33:53
Local clock offset: -0.022 ms
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-10-03 22:03:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 587.83 Mbit/s
95th percentile per-packet one-way delay: 61.865 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 587.83 Mbit/s
95th percentile per-packet one-way delay: 61.865 ms
Loss rate: 0.36%
```

# Run 1: Report of Muses\_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-03 18:08:09

End at: 2019-10-03 18:08:39

Local clock offset: -0.353 ms

Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2019-10-03 22:05:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 641.61 Mbit/s

95th percentile per-packet one-way delay: 57.214 ms

Loss rate: 0.32%

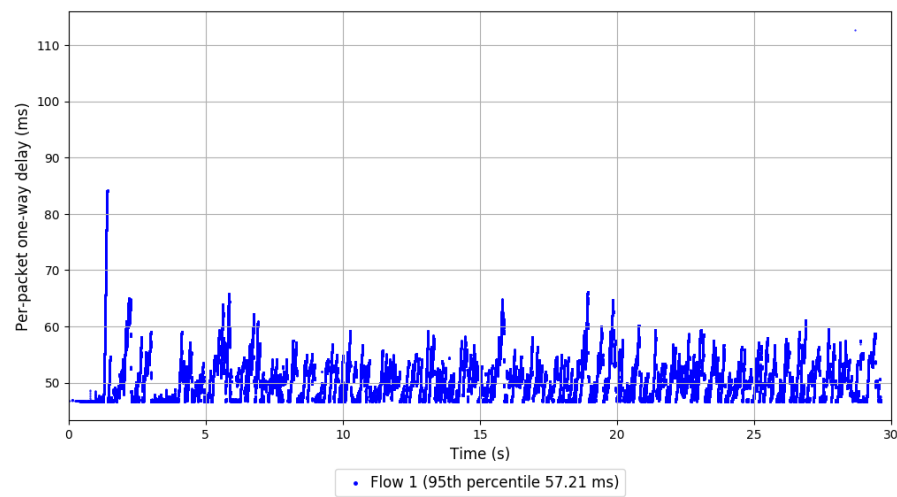
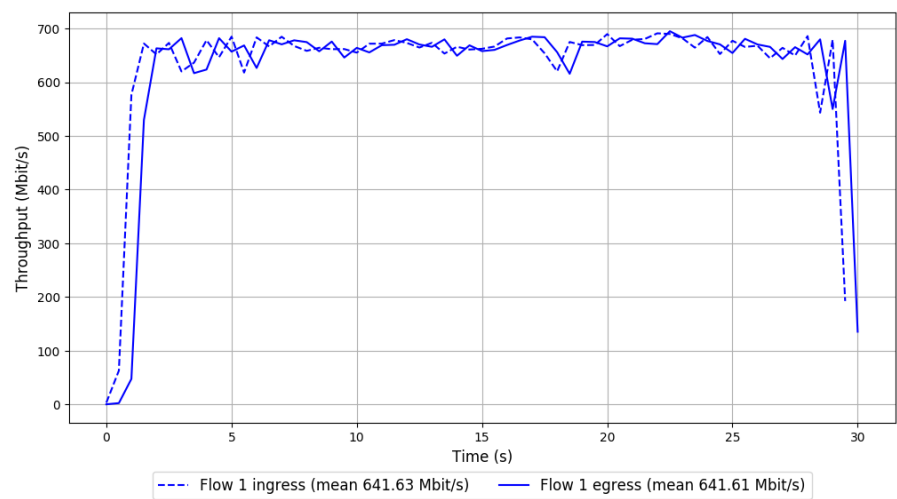
-- Flow 1:

Average throughput: 641.61 Mbit/s

95th percentile per-packet one-way delay: 57.214 ms

Loss rate: 0.32%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link

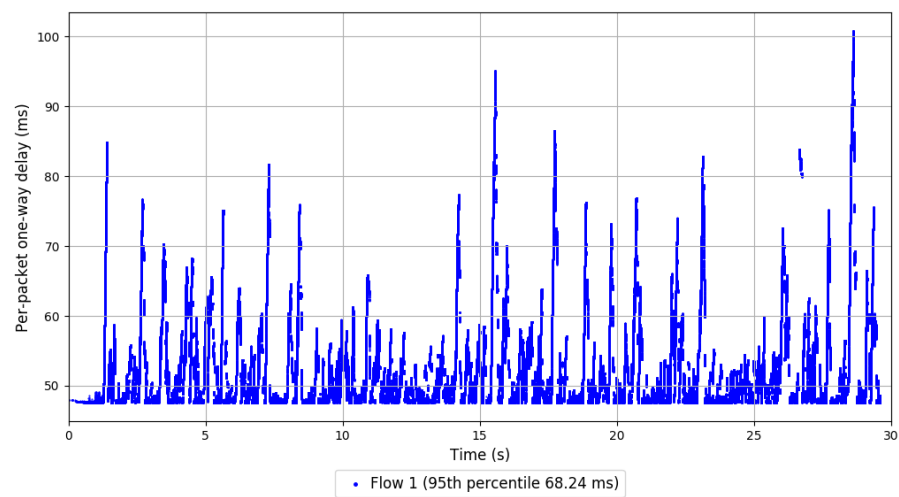
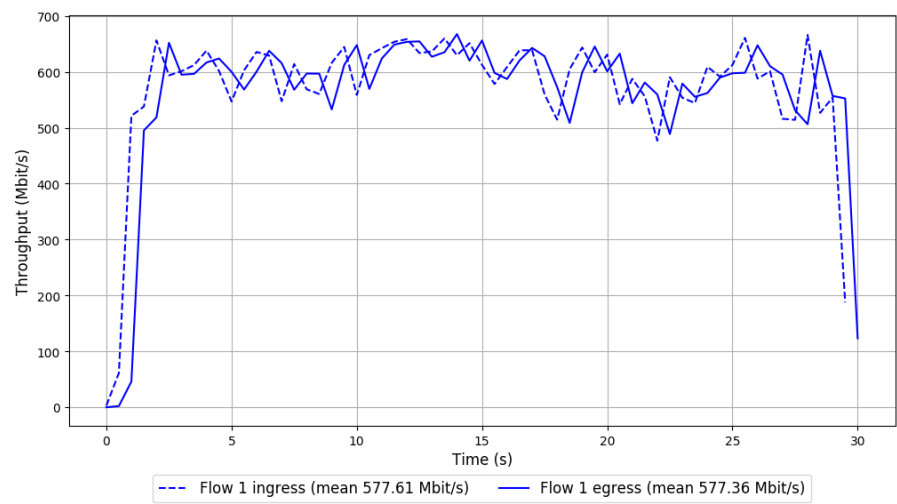


Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-03 18:42:59  
End at: 2019-10-03 18:43:29  
Local clock offset: 0.342 ms  
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2019-10-03 22:05:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 577.36 Mbit/s  
95th percentile per-packet one-way delay: 68.238 ms  
Loss rate: 0.36%  
-- Flow 1:  
Average throughput: 577.36 Mbit/s  
95th percentile per-packet one-way delay: 68.238 ms  
Loss rate: 0.36%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link





Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-03 19:18:03

End at: 2019-10-03 19:18:33

Local clock offset: -0.024 ms

Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2019-10-03 22:05:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 579.43 Mbit/s

95th percentile per-packet one-way delay: 68.222 ms

Loss rate: 0.38%

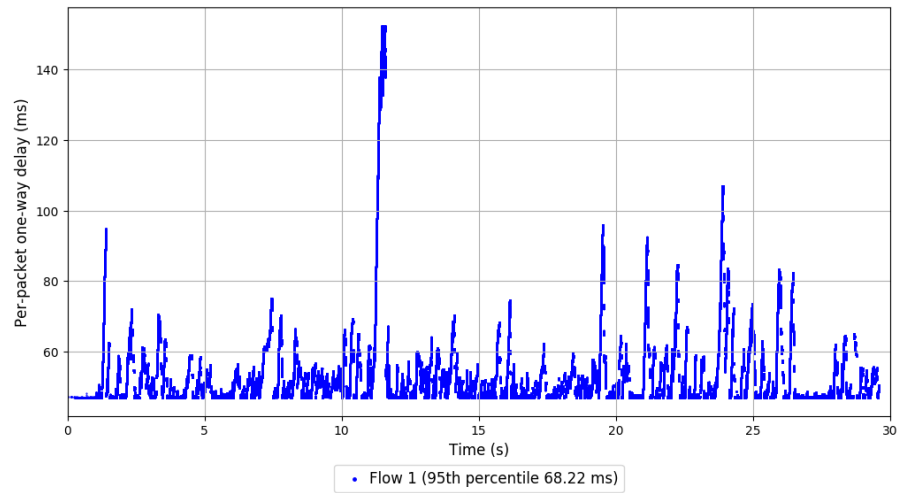
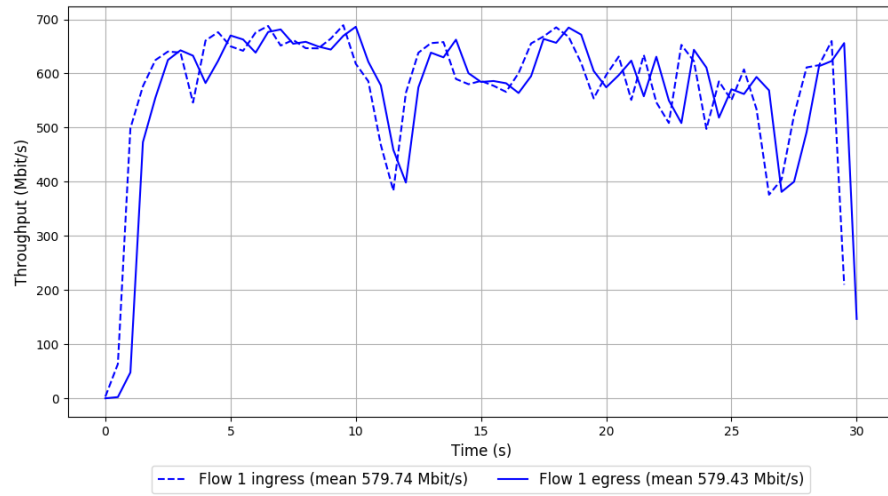
-- Flow 1:

Average throughput: 579.43 Mbit/s

95th percentile per-packet one-way delay: 68.222 ms

Loss rate: 0.38%

#### Run 4: Report of Muses\_DecisionTreeR0 — Data Link

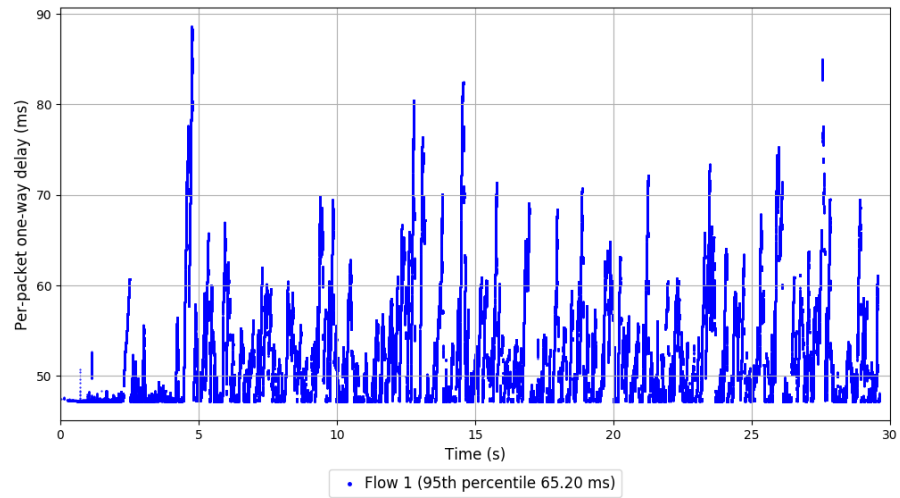
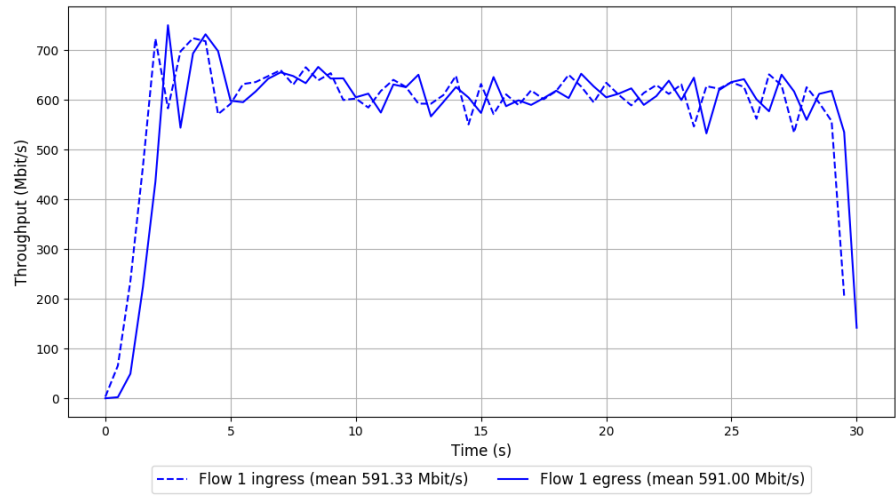


Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-03 19:53:01  
End at: 2019-10-03 19:53:31  
Local clock offset: -0.069 ms  
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2019-10-03 22:06:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 591.00 Mbit/s  
95th percentile per-packet one-way delay: 65.203 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 591.00 Mbit/s  
95th percentile per-packet one-way delay: 65.203 ms  
Loss rate: 0.37%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-10-03 17:45:17

End at: 2019-10-03 17:45:47

Local clock offset: 0.055 ms

Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2019-10-03 22:08:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 394.09 Mbit/s

95th percentile per-packet one-way delay: 101.438 ms

Loss rate: 0.95%

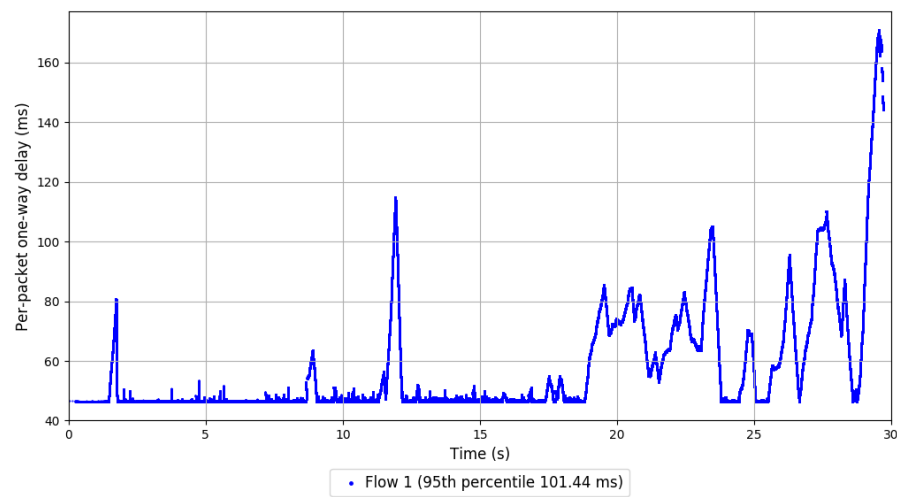
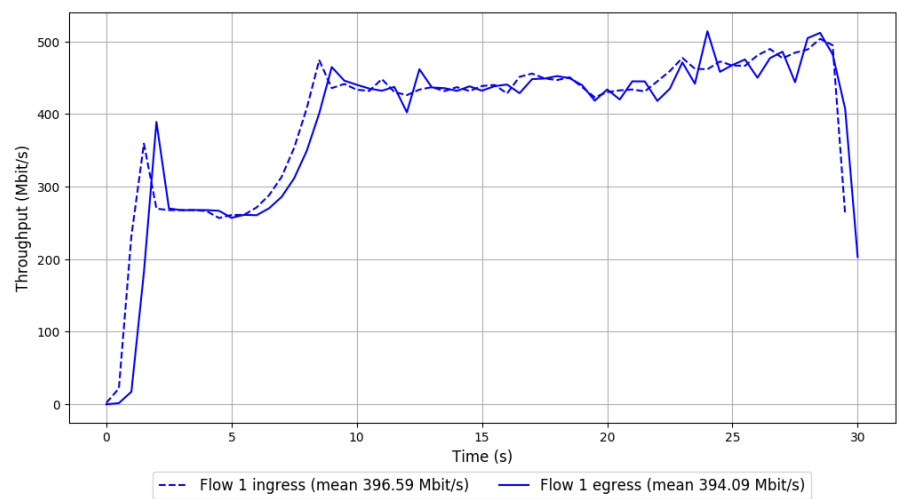
-- Flow 1:

Average throughput: 394.09 Mbit/s

95th percentile per-packet one-way delay: 101.438 ms

Loss rate: 0.95%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-10-03 18:20:16

End at: 2019-10-03 18:20:46

Local clock offset: -0.034 ms

Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2019-10-03 22:08:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 365.92 Mbit/s

95th percentile per-packet one-way delay: 130.658 ms

Loss rate: 1.63%

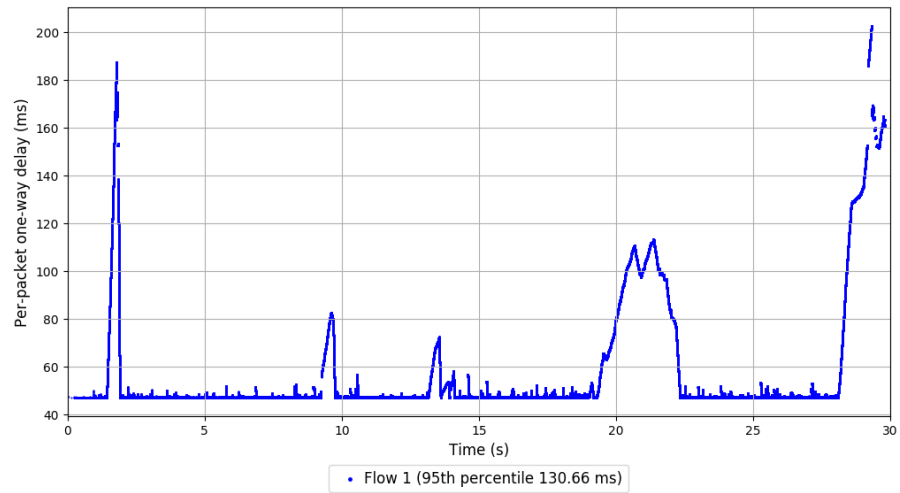
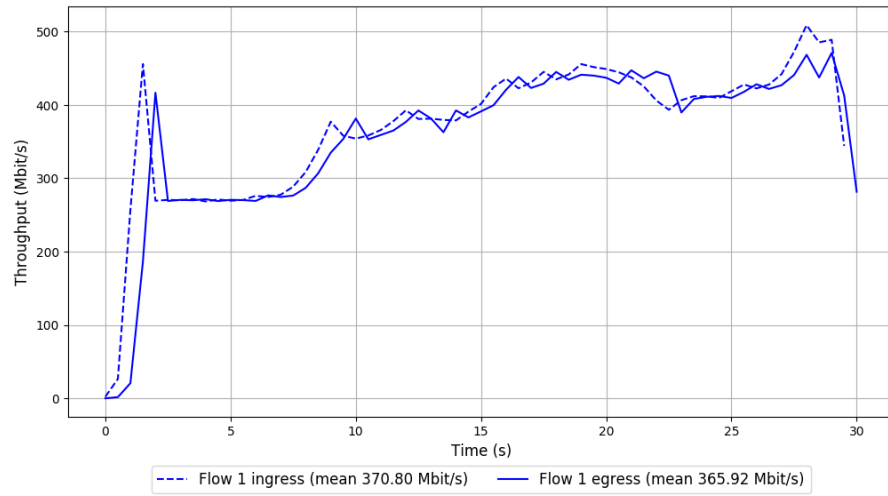
-- Flow 1:

Average throughput: 365.92 Mbit/s

95th percentile per-packet one-way delay: 130.658 ms

Loss rate: 1.63%

## Run 2: Report of PCC-Allegro — Data Link



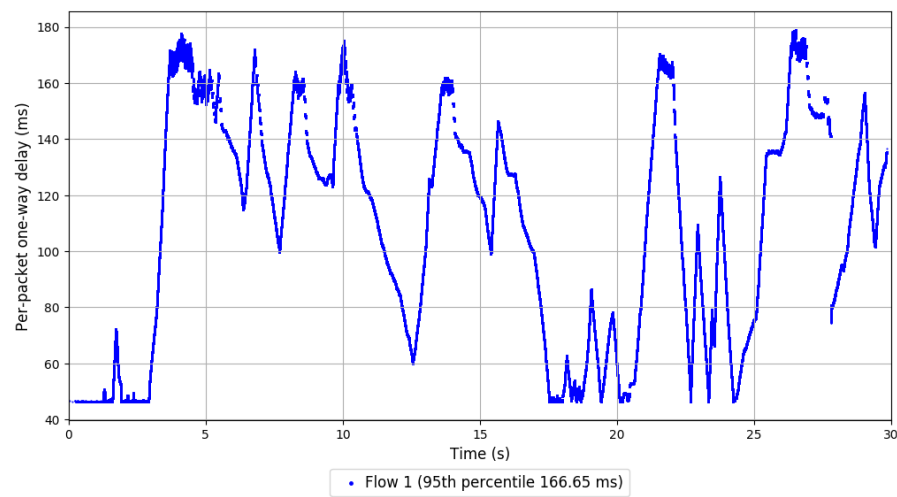
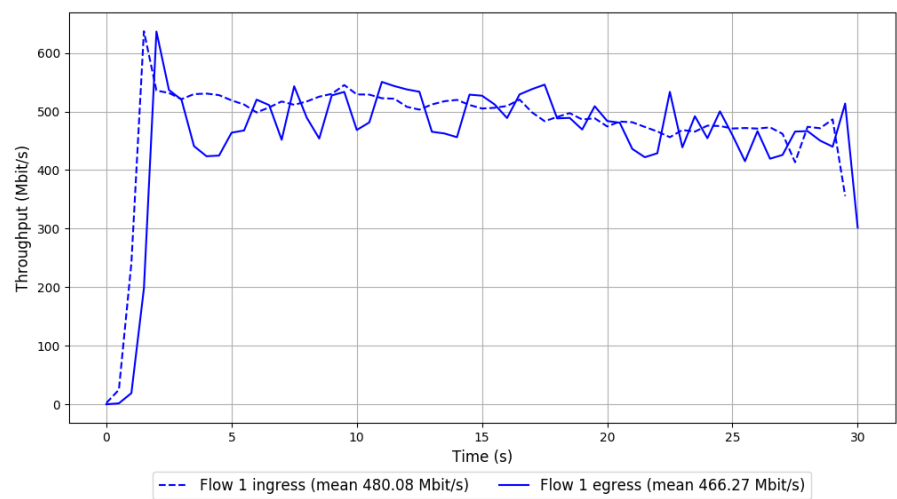


Run 3: Statistics of PCC-Allegro

Start at: 2019-10-03 18:54:57  
End at: 2019-10-03 18:55:27  
Local clock offset: -0.063 ms  
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2019-10-03 22:15:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 466.27 Mbit/s  
95th percentile per-packet one-way delay: 166.646 ms  
Loss rate: 3.18%  
-- Flow 1:  
Average throughput: 466.27 Mbit/s  
95th percentile per-packet one-way delay: 166.646 ms  
Loss rate: 3.18%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-10-03 19:29:53

End at: 2019-10-03 19:30:23

Local clock offset: -0.026 ms

Remote clock offset: -0.156 ms

# Below is generated by plot.py at 2019-10-03 22:20:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 448.73 Mbit/s

95th percentile per-packet one-way delay: 173.352 ms

Loss rate: 4.92%

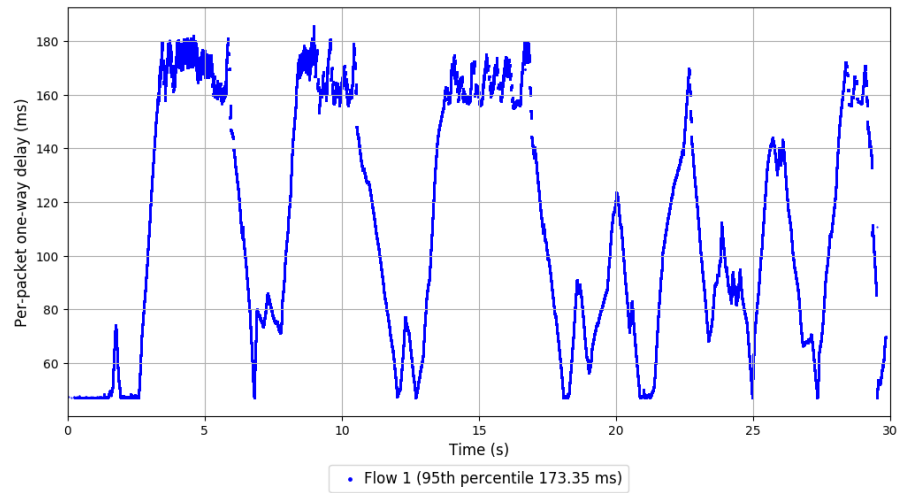
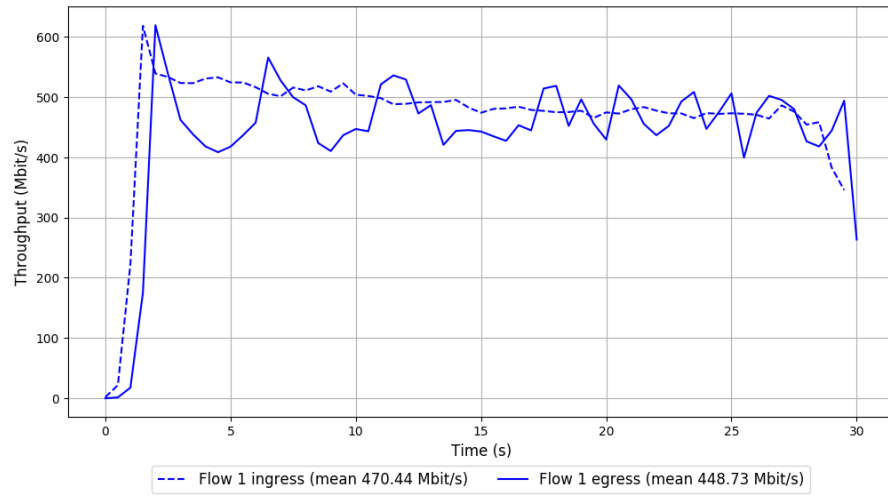
-- Flow 1:

Average throughput: 448.73 Mbit/s

95th percentile per-packet one-way delay: 173.352 ms

Loss rate: 4.92%

#### Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-10-03 20:04:59

End at: 2019-10-03 20:05:29

Local clock offset: -0.06 ms

Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2019-10-03 22:22:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 489.33 Mbit/s

95th percentile per-packet one-way delay: 132.271 ms

Loss rate: 0.98%

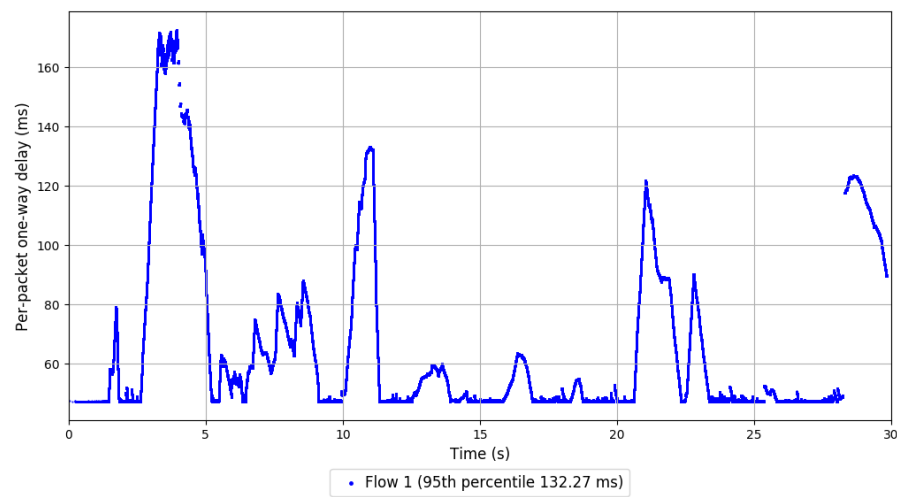
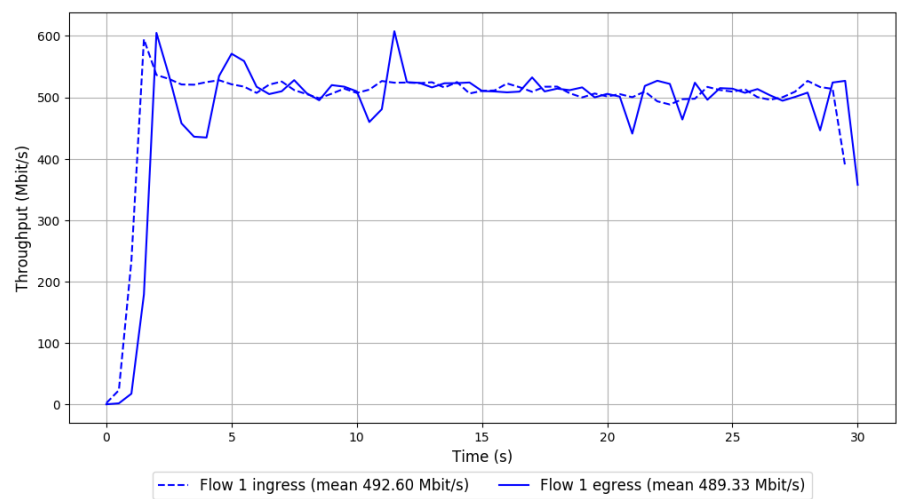
-- Flow 1:

Average throughput: 489.33 Mbit/s

95th percentile per-packet one-way delay: 132.271 ms

Loss rate: 0.98%

Run 5: Report of PCC-Allegro — Data Link

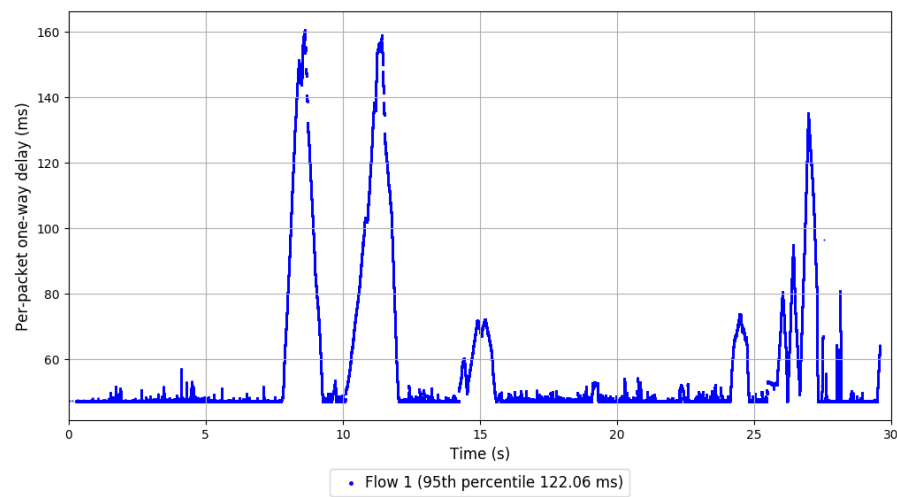
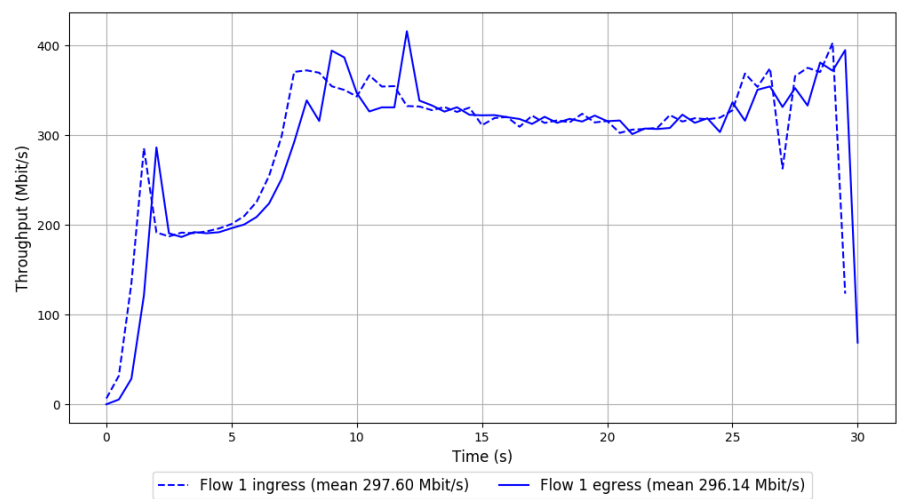


```
Run 1: Statistics of PCC-Expr

Start at: 2019-10-03 17:47:56
End at: 2019-10-03 17:48:26
Local clock offset: -0.002 ms
Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2019-10-03 22:22:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 296.14 Mbit/s
95th percentile per-packet one-way delay: 122.060 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 296.14 Mbit/s
95th percentile per-packet one-way delay: 122.060 ms
Loss rate: 0.81%
```

Run 1: Report of PCC-Expr — Data Link





Run 2: Statistics of PCC-Expr

Start at: 2019-10-03 18:22:54

End at: 2019-10-03 18:23:24

Local clock offset: -0.045 ms

Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-10-03 22:22:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 365.03 Mbit/s

95th percentile per-packet one-way delay: 108.234 ms

Loss rate: 1.23%

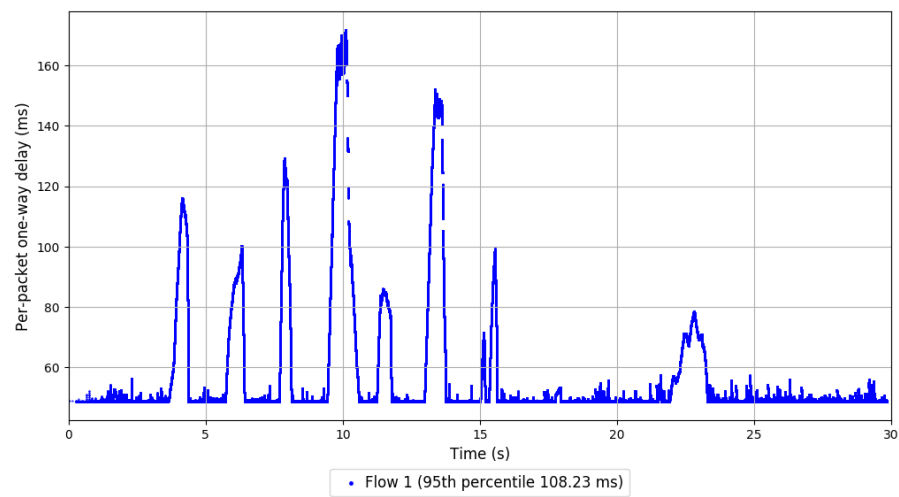
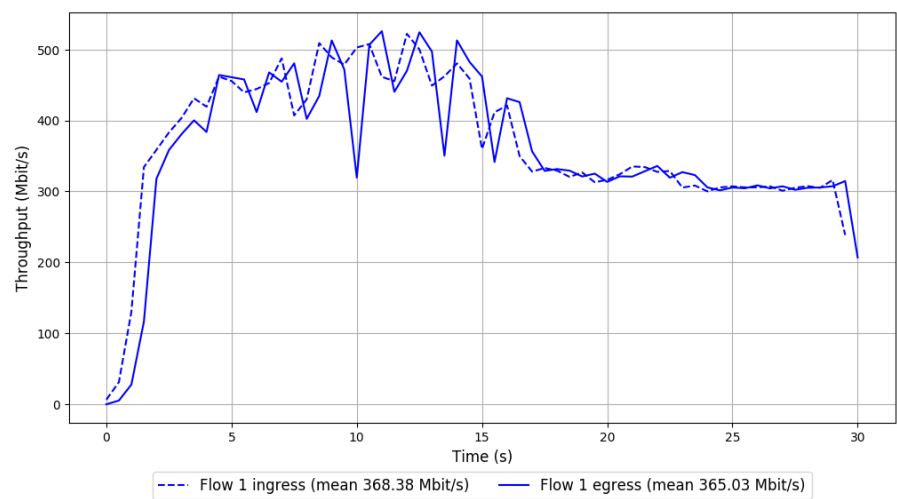
-- Flow 1:

Average throughput: 365.03 Mbit/s

95th percentile per-packet one-way delay: 108.234 ms

Loss rate: 1.23%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-10-03 18:57:42

End at: 2019-10-03 18:58:12

Local clock offset: -0.04 ms

Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2019-10-03 22:22:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 277.03 Mbit/s

95th percentile per-packet one-way delay: 153.570 ms

Loss rate: 1.06%

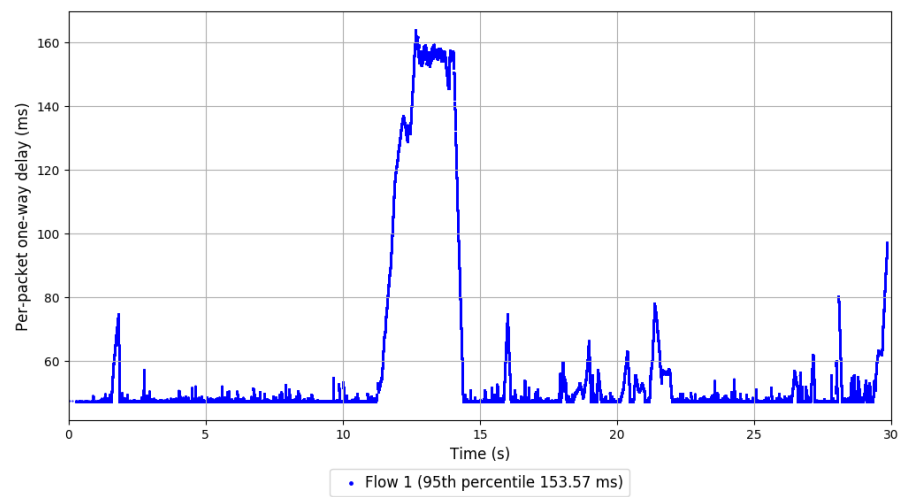
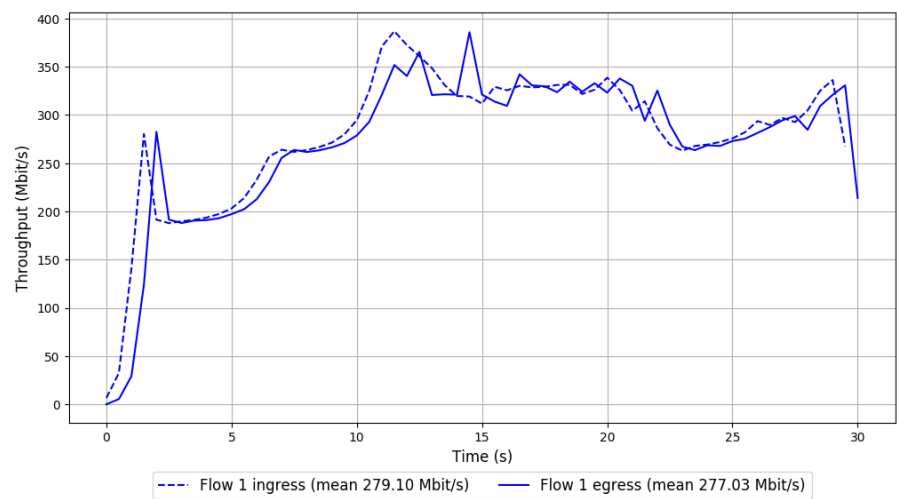
-- Flow 1:

Average throughput: 277.03 Mbit/s

95th percentile per-packet one-way delay: 153.570 ms

Loss rate: 1.06%

Run 3: Report of PCC-Expr — Data Link

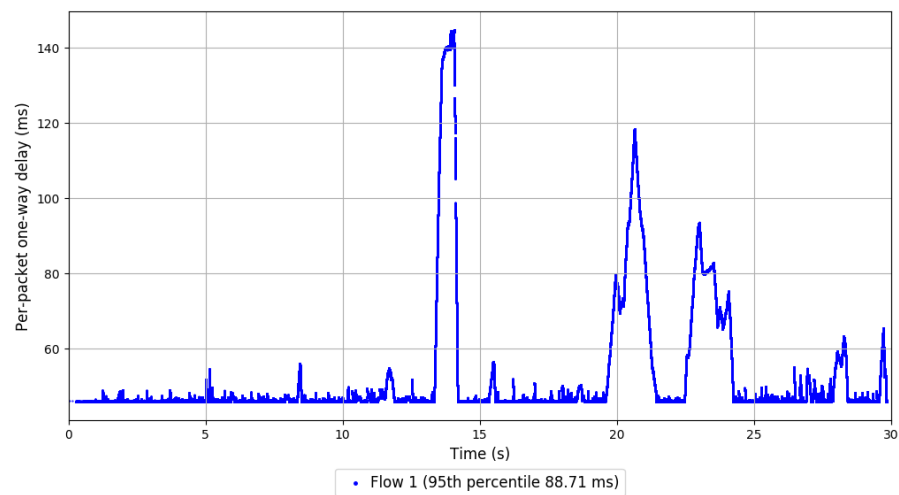
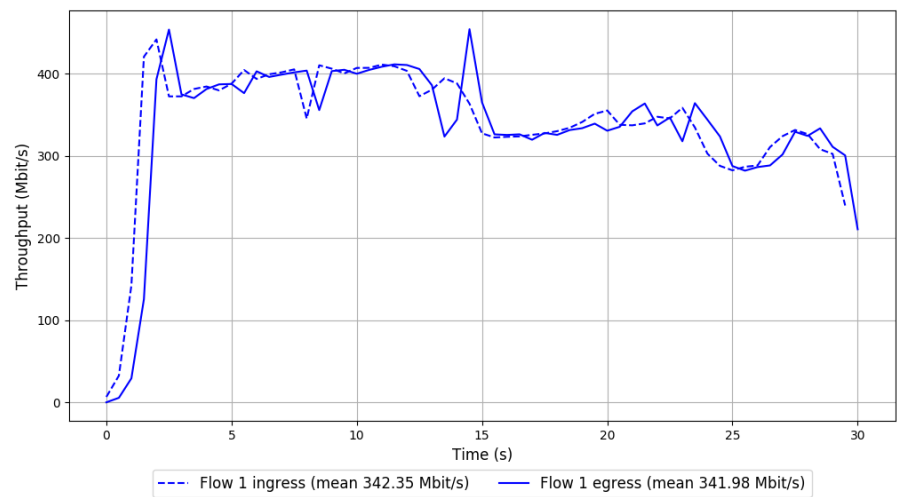


Run 4: Statistics of PCC-Expr

Start at: 2019-10-03 19:32:37  
End at: 2019-10-03 19:33:07  
Local clock offset: -0.367 ms  
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2019-10-03 22:22:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 341.98 Mbit/s  
95th percentile per-packet one-way delay: 88.709 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 341.98 Mbit/s  
95th percentile per-packet one-way delay: 88.709 ms  
Loss rate: 0.42%

Run 4: Report of PCC-Expr — Data Link

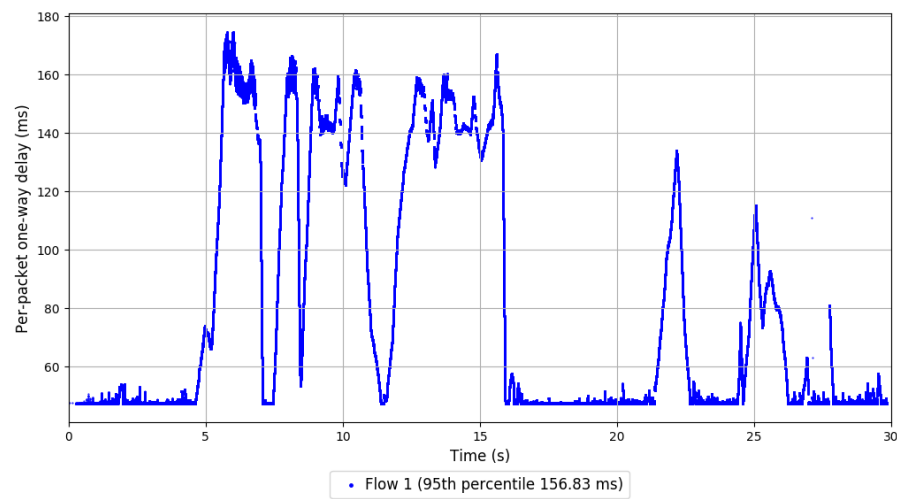
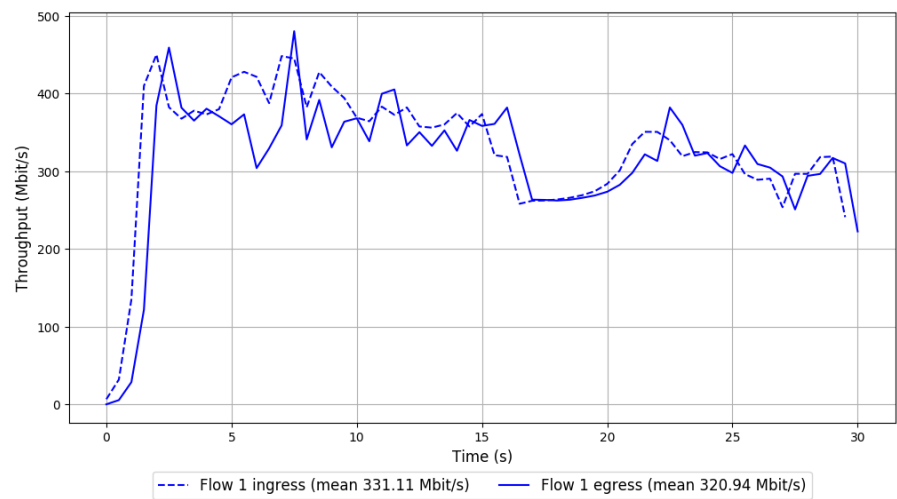


Run 5: Statistics of PCC-Expr

Start at: 2019-10-03 20:07:45  
End at: 2019-10-03 20:08:15  
Local clock offset: -0.077 ms  
Remote clock offset: -0.161 ms

# Below is generated by plot.py at 2019-10-03 22:22:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 320.94 Mbit/s  
95th percentile per-packet one-way delay: 156.829 ms  
Loss rate: 3.38%  
-- Flow 1:  
Average throughput: 320.94 Mbit/s  
95th percentile per-packet one-way delay: 156.829 ms  
Loss rate: 3.38%

Run 5: Report of PCC-Expr — Data Link





Run 1: Statistics of QUIC Cubic

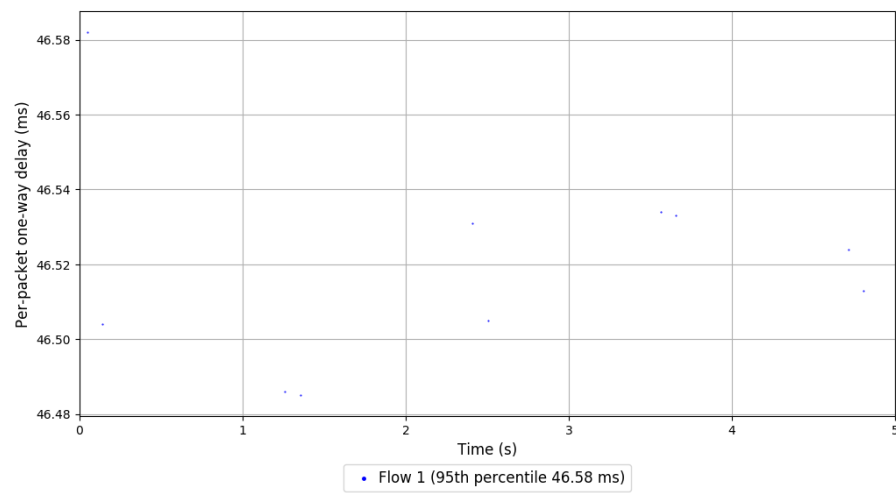
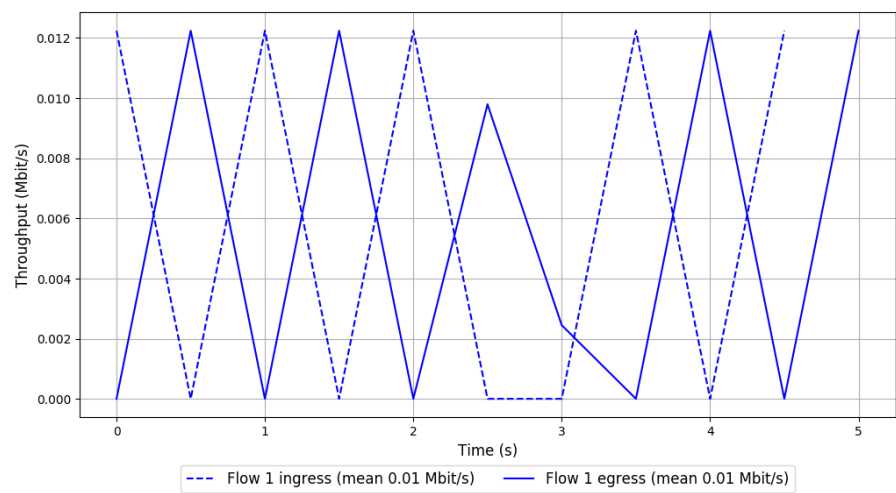
Start at: 2019-10-03 17:25:01

End at: 2019-10-03 17:25:31

Local clock offset: -0.071 ms

Remote clock offset: -0.046 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-10-03 17:59:42

End at: 2019-10-03 18:00:12

Local clock offset: 0.067 ms

Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2019-10-03 22:22:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.31 Mbit/s

95th percentile per-packet one-way delay: 46.485 ms

Loss rate: 0.38%

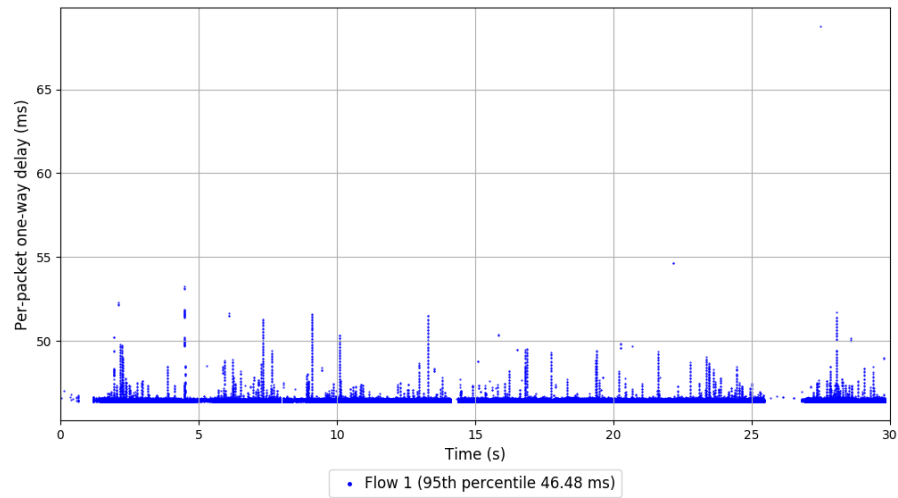
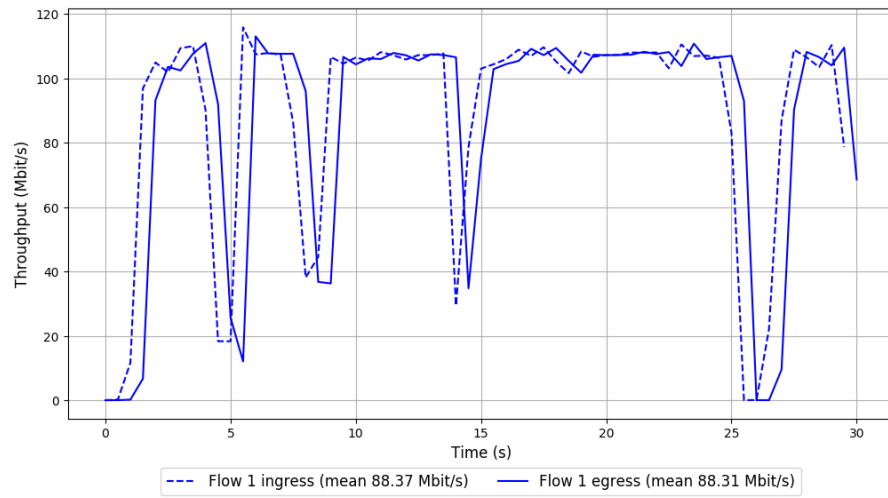
-- Flow 1:

Average throughput: 88.31 Mbit/s

95th percentile per-packet one-way delay: 46.485 ms

Loss rate: 0.38%

## Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-10-03 18:34:26

End at: 2019-10-03 18:34:56

Local clock offset: -0.043 ms

Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-10-03 22:22:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 52.37 Mbit/s

95th percentile per-packet one-way delay: 47.184 ms

Loss rate: 0.55%

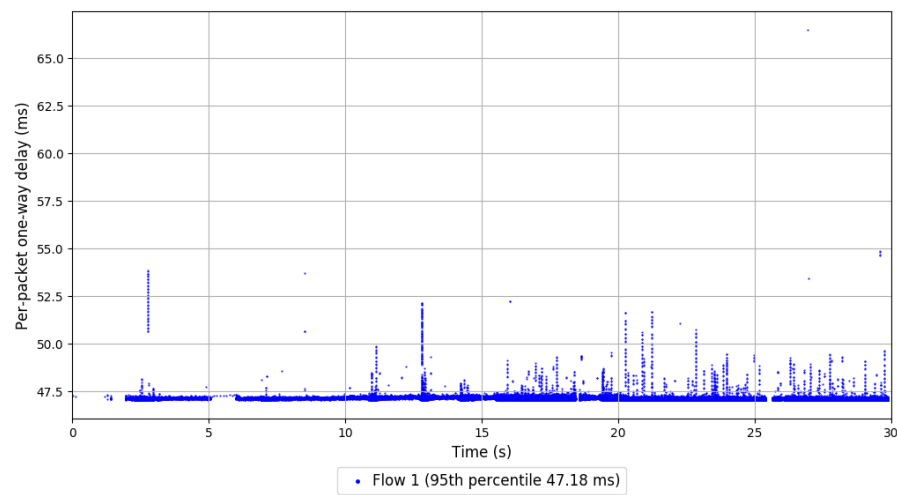
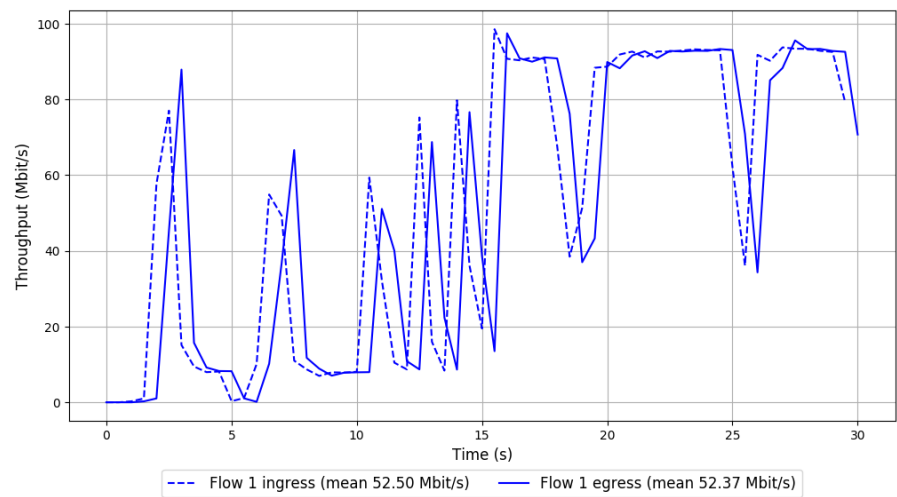
-- Flow 1:

Average throughput: 52.37 Mbit/s

95th percentile per-packet one-way delay: 47.184 ms

Loss rate: 0.55%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-10-03 19:09:18

End at: 2019-10-03 19:09:48

Local clock offset: -0.033 ms

Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2019-10-03 22:22:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 67.60 Mbit/s

95th percentile per-packet one-way delay: 47.144 ms

Loss rate: 0.47%

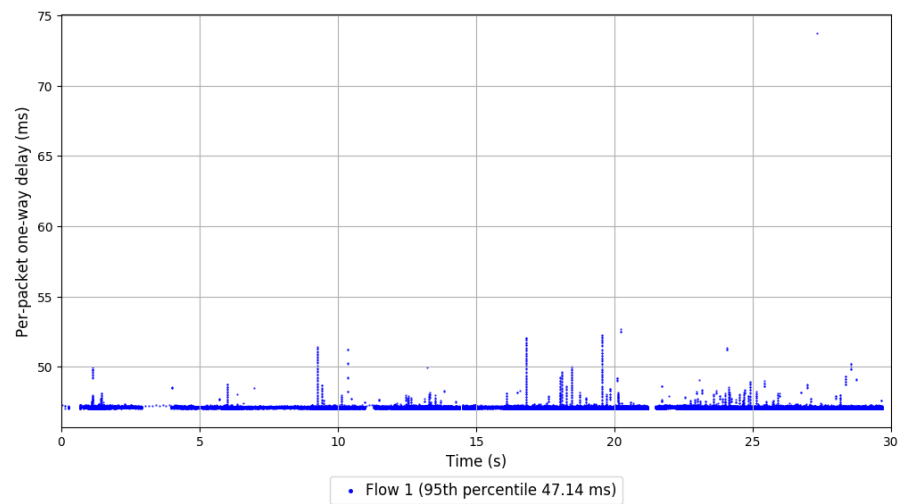
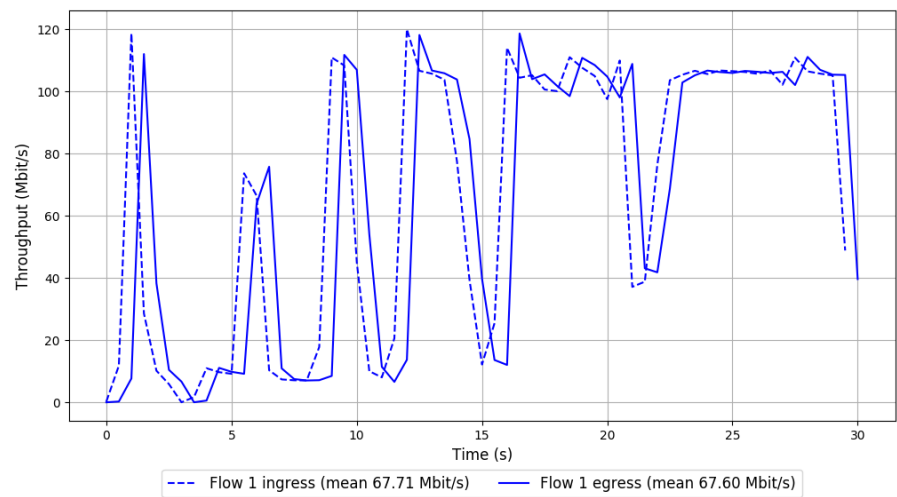
-- Flow 1:

Average throughput: 67.60 Mbit/s

95th percentile per-packet one-way delay: 47.144 ms

Loss rate: 0.47%

Run 4: Report of QUIC Cubic — Data Link





Run 5: Statistics of QUIC Cubic

Start at: 2019-10-03 19:44:22

End at: 2019-10-03 19:44:52

Local clock offset: -0.039 ms

Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2019-10-03 22:22:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 63.25 Mbit/s

95th percentile per-packet one-way delay: 46.447 ms

Loss rate: 0.55%

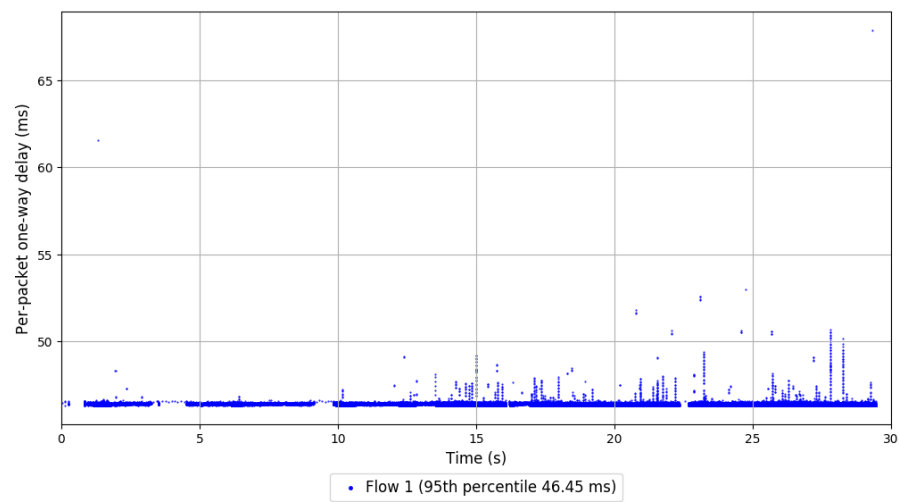
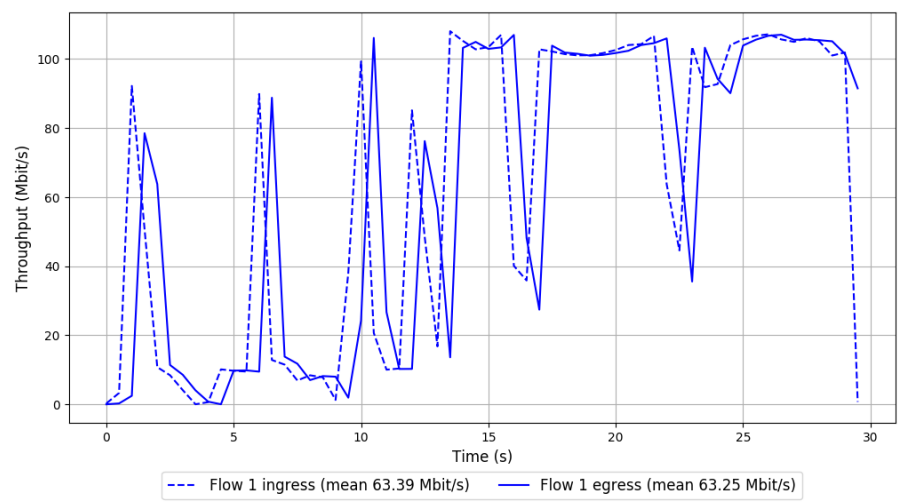
-- Flow 1:

Average throughput: 63.25 Mbit/s

95th percentile per-packet one-way delay: 46.447 ms

Loss rate: 0.55%

Run 5: Report of QUIC Cubic — Data Link

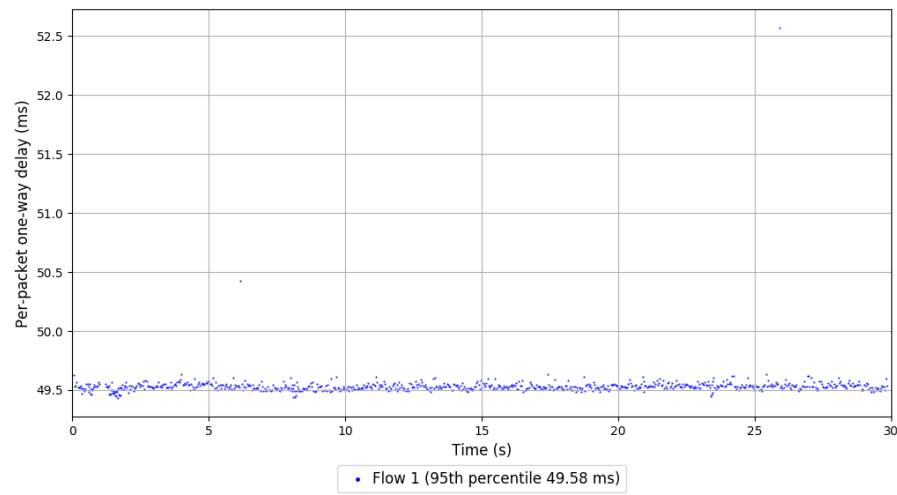
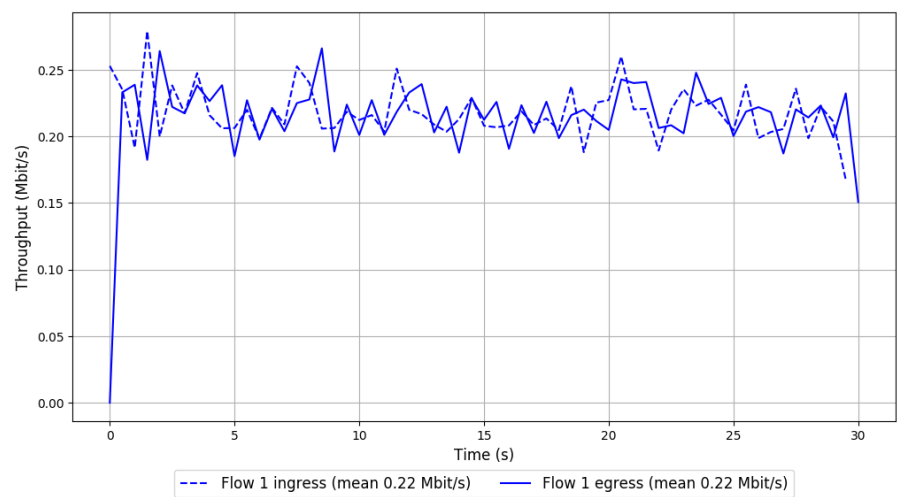


Run 1: Statistics of SCReAM

Start at: 2019-10-03 17:46:49  
End at: 2019-10-03 17:47:19  
Local clock offset: 0.029 ms  
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2019-10-03 22:22:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 49.580 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 49.580 ms  
Loss rate: 0.25%

Run 1: Report of SReAM — Data Link

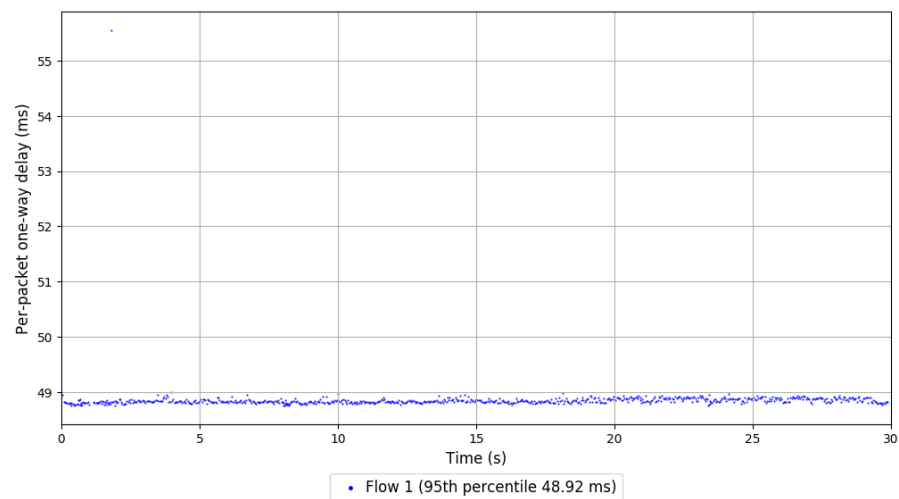
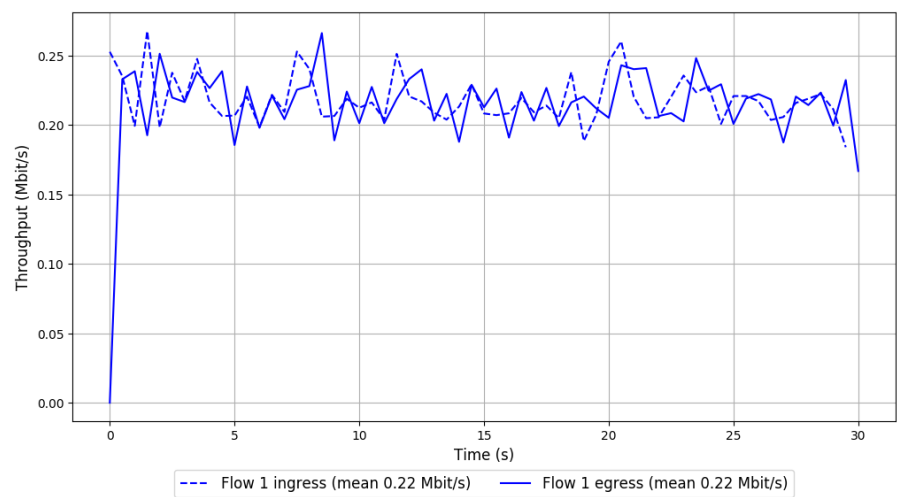


Run 2: Statistics of SCReAM

Start at: 2019-10-03 18:21:47  
End at: 2019-10-03 18:22:17  
Local clock offset: -0.05 ms  
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2019-10-03 22:22:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 48.920 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 48.920 ms  
Loss rate: 0.26%

Run 2: Report of SReAM — Data Link

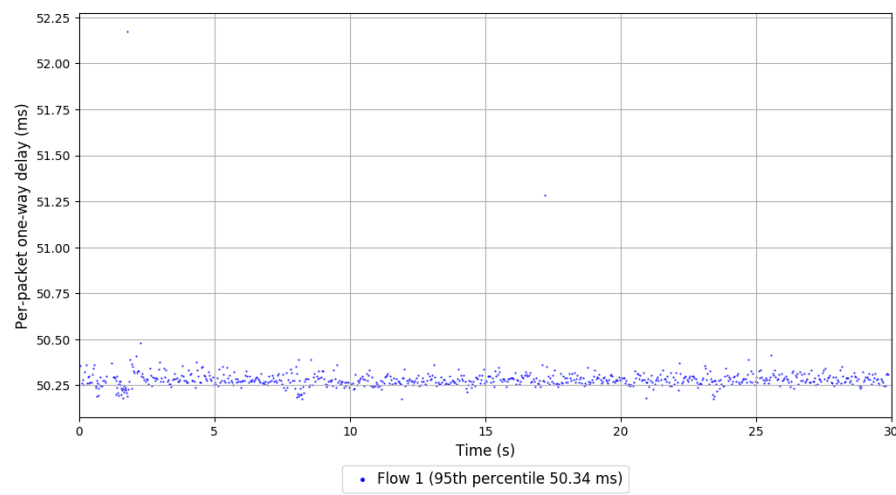
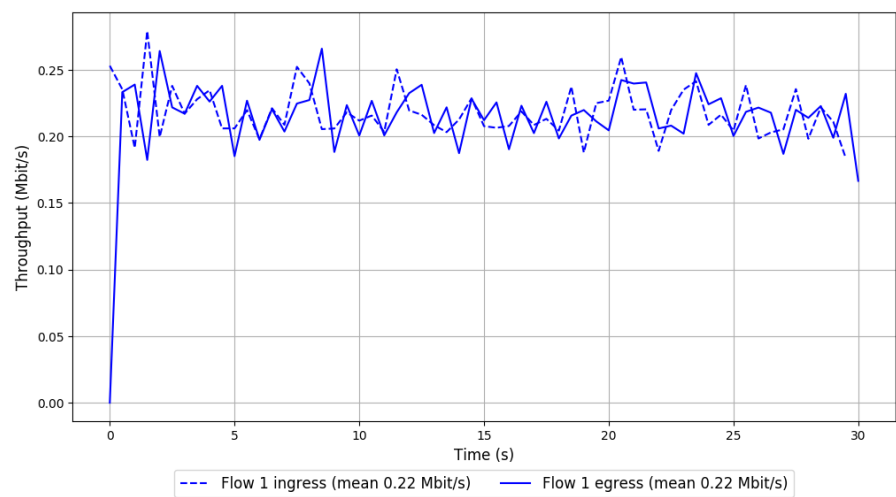


Run 3: Statistics of SCReAM

Start at: 2019-10-03 18:56:35  
End at: 2019-10-03 18:57:05  
Local clock offset: -0.037 ms  
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2019-10-03 22:22:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.339 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.339 ms  
Loss rate: 0.26%

Run 3: Report of SReAM — Data Link



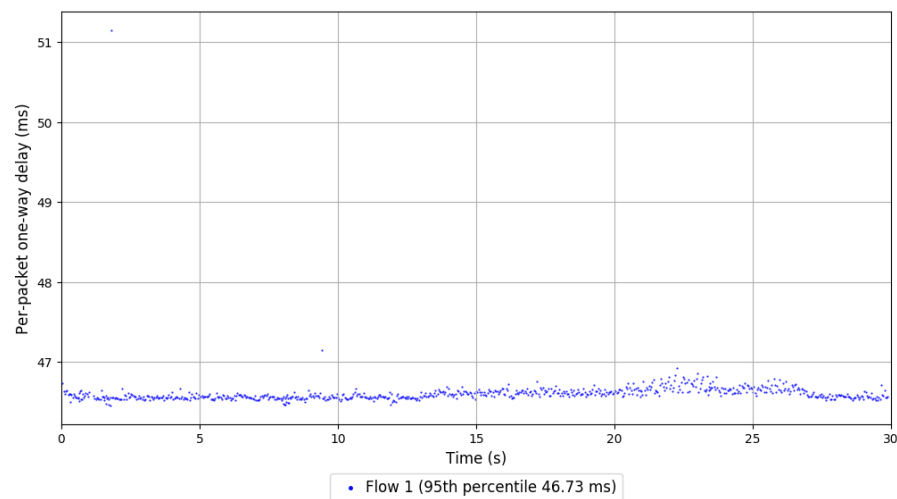
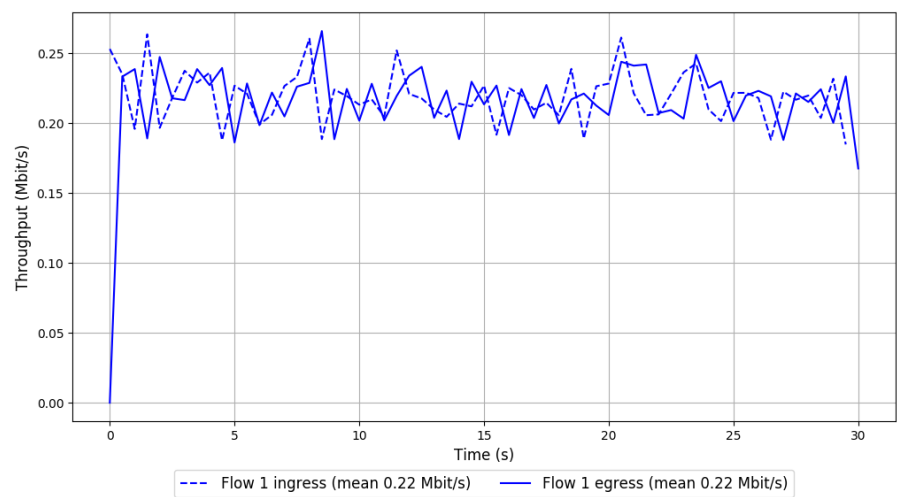


Run 4: Statistics of SCReAM

Start at: 2019-10-03 19:31:29  
End at: 2019-10-03 19:31:59  
Local clock offset: -0.024 ms  
Remote clock offset: -0.149 ms

# Below is generated by plot.py at 2019-10-03 22:22:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 46.728 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 46.728 ms  
Loss rate: 0.26%

Run 4: Report of SReAM — Data Link

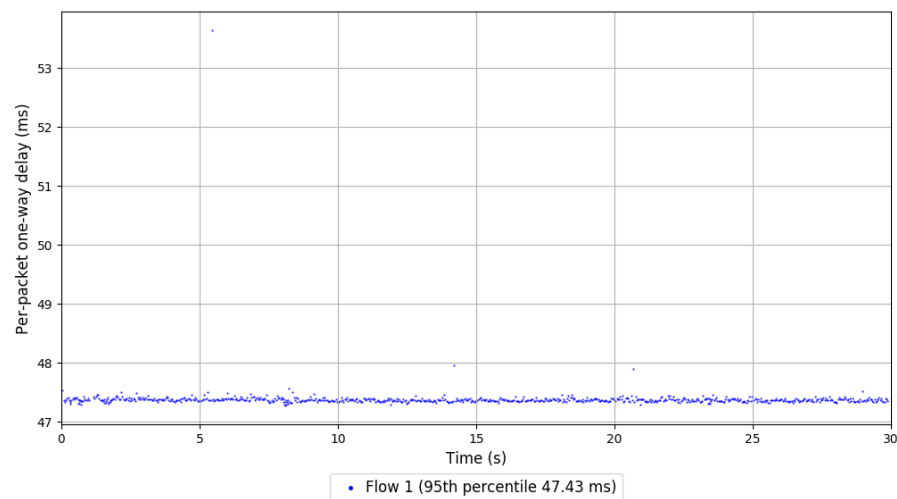
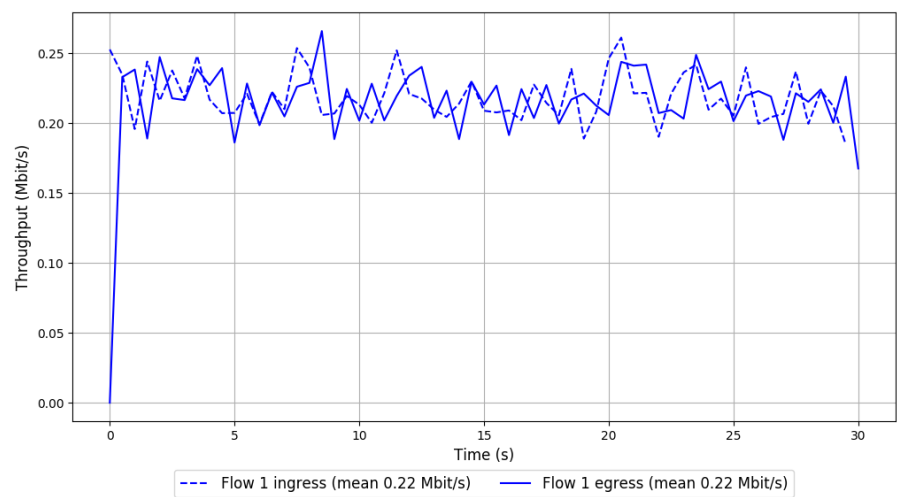


Run 5: Statistics of SCReAM

Start at: 2019-10-03 20:06:38  
End at: 2019-10-03 20:07:08  
Local clock offset: -0.067 ms  
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2019-10-03 22:22:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 47.429 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 47.429 ms  
Loss rate: 0.26%

Run 5: Report of SReAM — Data Link

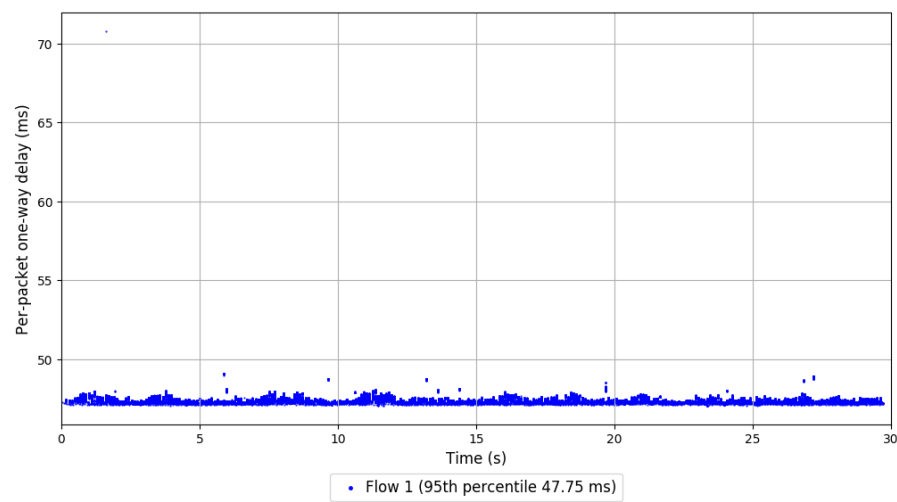
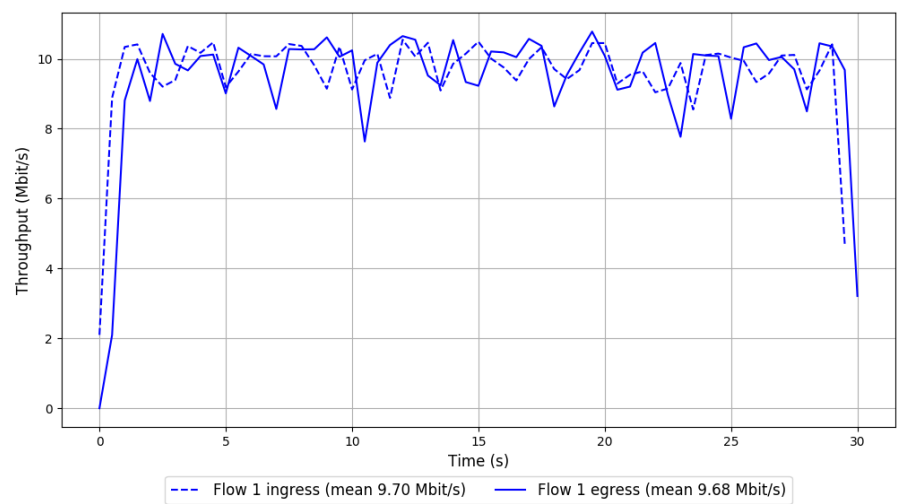


Run 1: Statistics of Sprout

Start at: 2019-10-03 17:29:09  
End at: 2019-10-03 17:29:39  
Local clock offset: -0.036 ms  
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2019-10-03 22:22:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.68 Mbit/s  
95th percentile per-packet one-way delay: 47.751 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 9.68 Mbit/s  
95th percentile per-packet one-way delay: 47.751 ms  
Loss rate: 0.39%

Run 1: Report of Sprout — Data Link

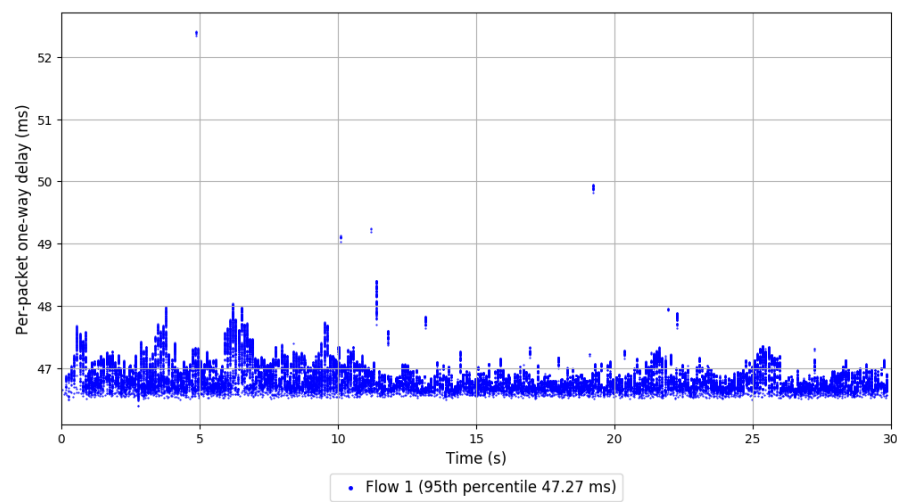
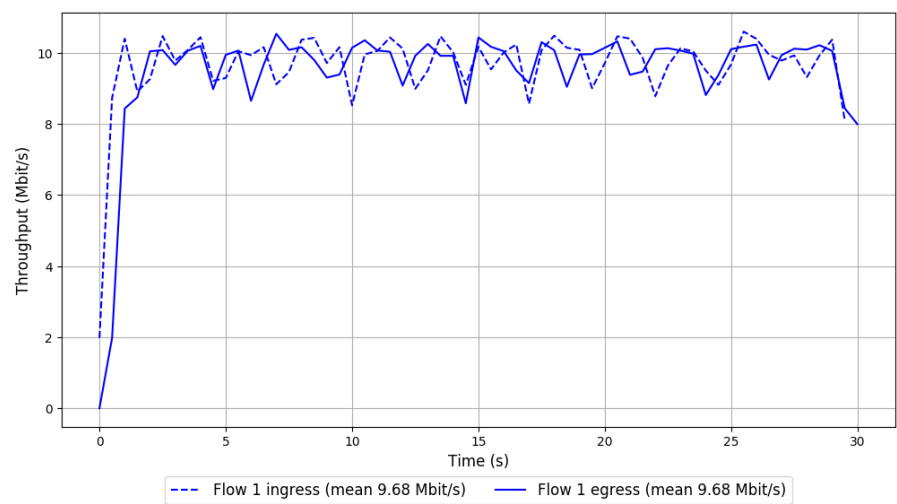


Run 2: Statistics of Sprout

Start at: 2019-10-03 18:03:49  
End at: 2019-10-03 18:04:19  
Local clock offset: 0.018 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-10-03 22:22:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.68 Mbit/s  
95th percentile per-packet one-way delay: 47.270 ms  
Loss rate: 0.35%  
-- Flow 1:  
Average throughput: 9.68 Mbit/s  
95th percentile per-packet one-way delay: 47.270 ms  
Loss rate: 0.35%

Run 2: Report of Sprout — Data Link



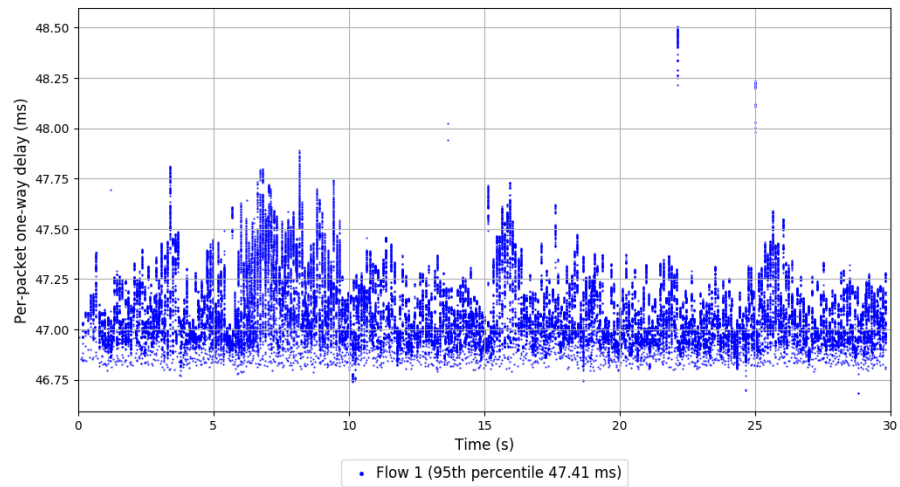
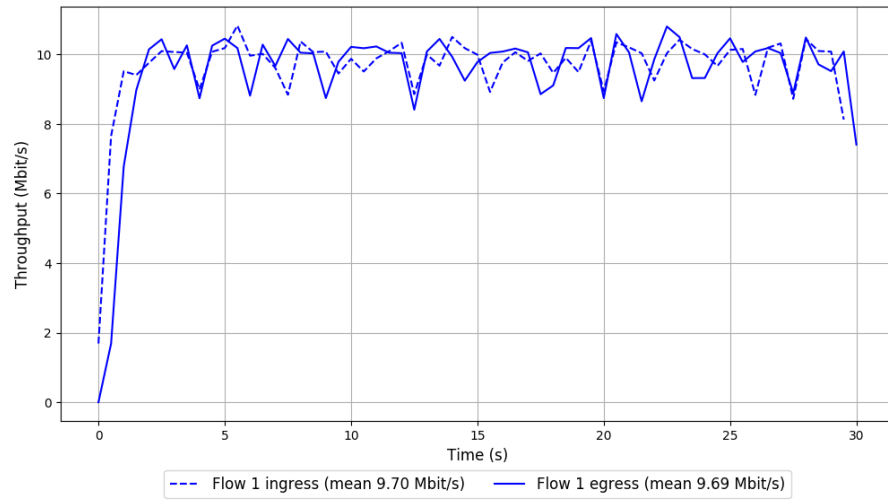


Run 3: Statistics of Sprout

Start at: 2019-10-03 18:38:43  
End at: 2019-10-03 18:39:13  
Local clock offset: -0.421 ms  
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2019-10-03 22:22:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.69 Mbit/s  
95th percentile per-packet one-way delay: 47.413 ms  
Loss rate: 0.35%  
-- Flow 1:  
Average throughput: 9.69 Mbit/s  
95th percentile per-packet one-way delay: 47.413 ms  
Loss rate: 0.35%

### Run 3: Report of Sprout — Data Link

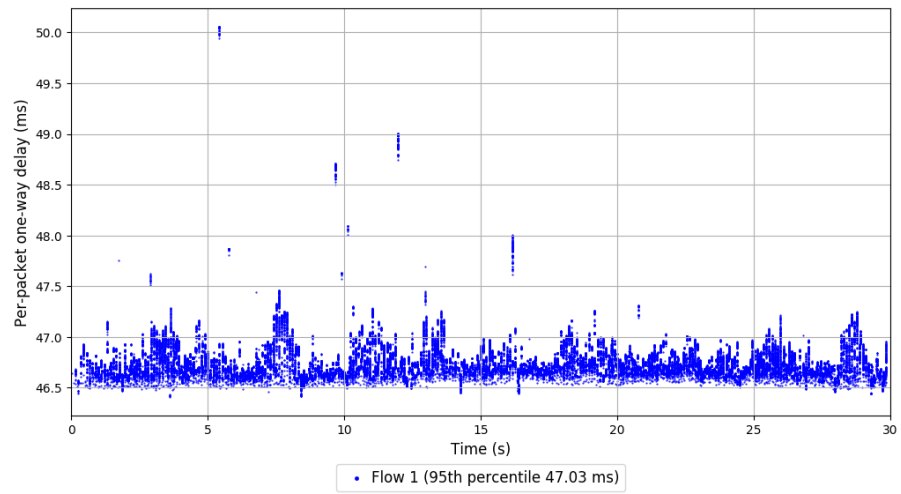
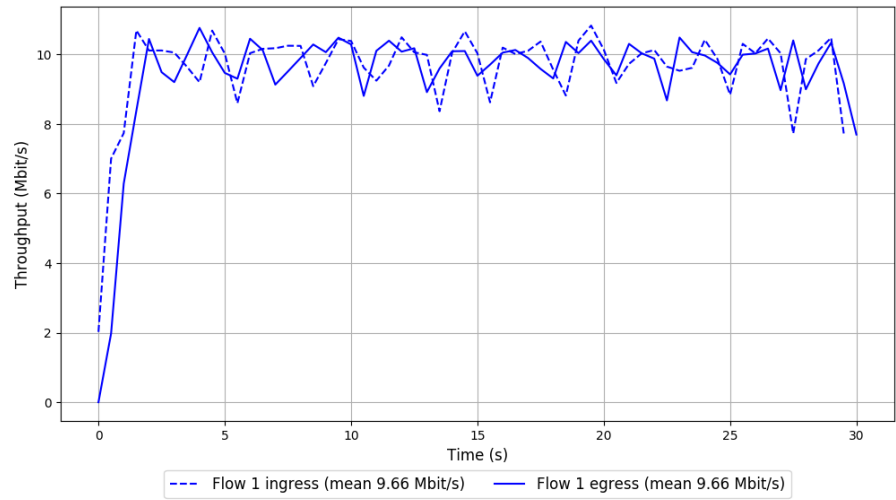


Run 4: Statistics of Sprout

Start at: 2019-10-03 19:13:45  
End at: 2019-10-03 19:14:15  
Local clock offset: -0.011 ms  
Remote clock offset: -0.126 ms

# Below is generated by plot.py at 2019-10-03 22:22:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.66 Mbit/s  
95th percentile per-packet one-way delay: 47.028 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 9.66 Mbit/s  
95th percentile per-packet one-way delay: 47.028 ms  
Loss rate: 0.23%

#### Run 4: Report of Sprout — Data Link

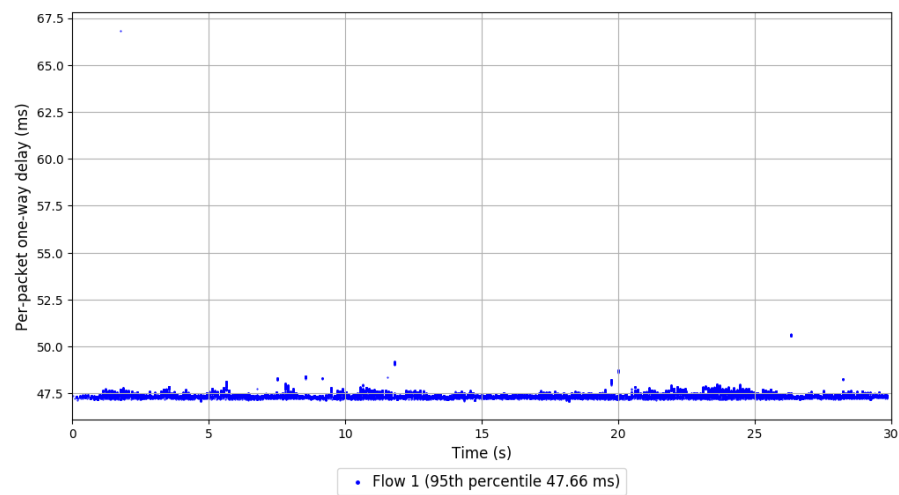
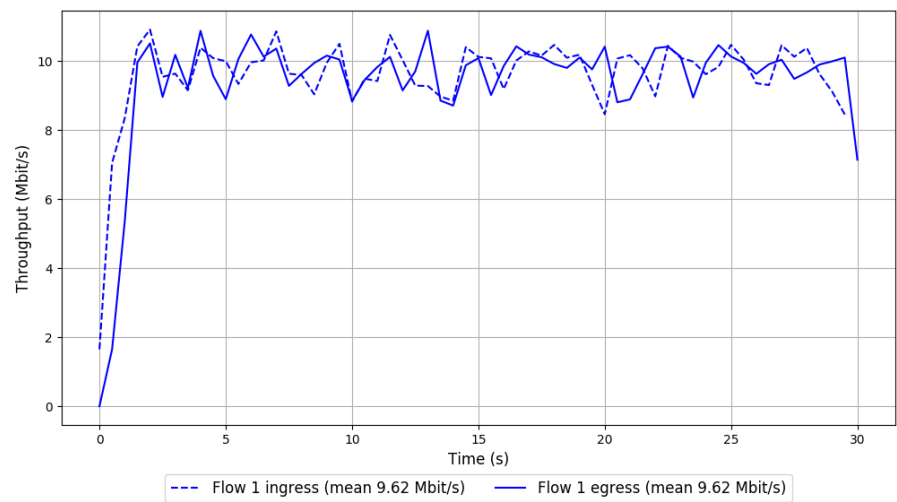


Run 5: Statistics of Sprout

Start at: 2019-10-03 19:48:46  
End at: 2019-10-03 19:49:16  
Local clock offset: -0.081 ms  
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2019-10-03 22:22:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.62 Mbit/s  
95th percentile per-packet one-way delay: 47.656 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 9.62 Mbit/s  
95th percentile per-packet one-way delay: 47.656 ms  
Loss rate: 0.33%

Run 5: Report of Sprout — Data Link

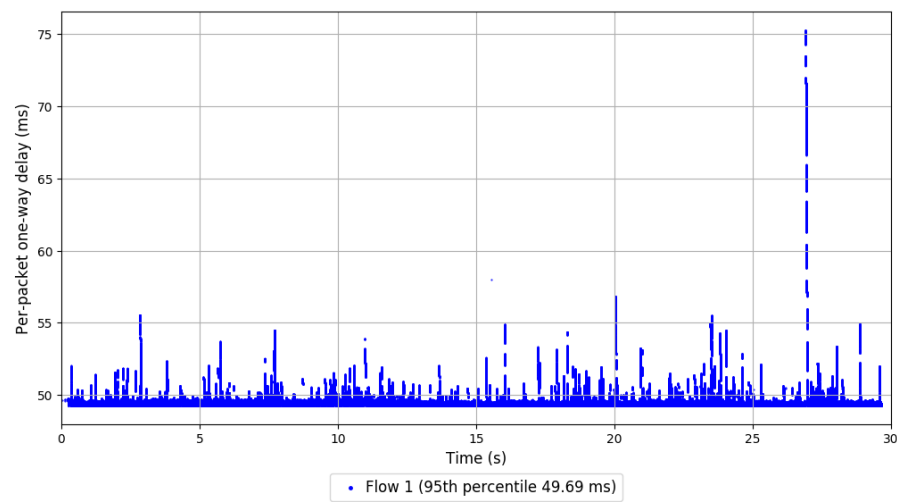
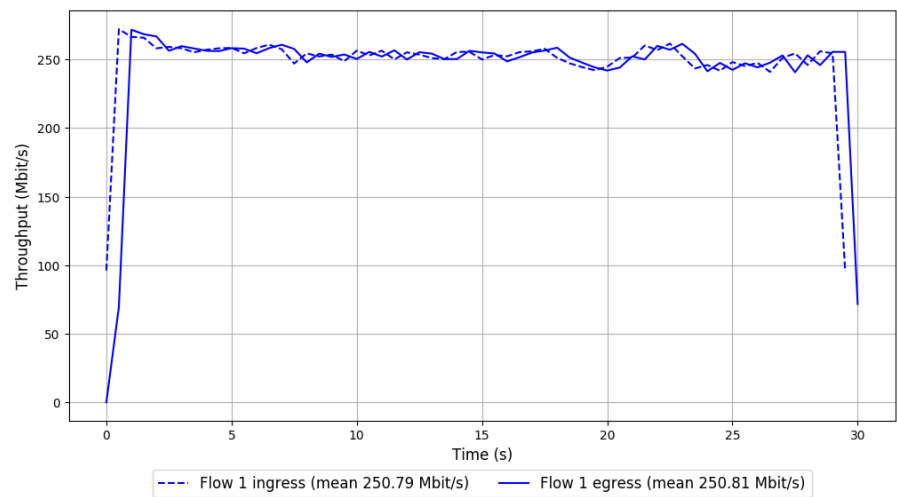


Run 1: Statistics of TaoVA-100x

Start at: 2019-10-03 17:21:51  
End at: 2019-10-03 17:22:21  
Local clock offset: -0.083 ms  
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2019-10-03 22:27:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 250.81 Mbit/s  
95th percentile per-packet one-way delay: 49.686 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 250.81 Mbit/s  
95th percentile per-packet one-way delay: 49.686 ms  
Loss rate: 0.32%

Run 1: Report of TaoVA-100x — Data Link





Run 2: Statistics of TaoVA-100x

Start at: 2019-10-03 17:56:32

End at: 2019-10-03 17:57:02

Local clock offset: 0.044 ms

Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2019-10-03 22:27:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 247.05 Mbit/s

95th percentile per-packet one-way delay: 47.409 ms

Loss rate: 0.33%

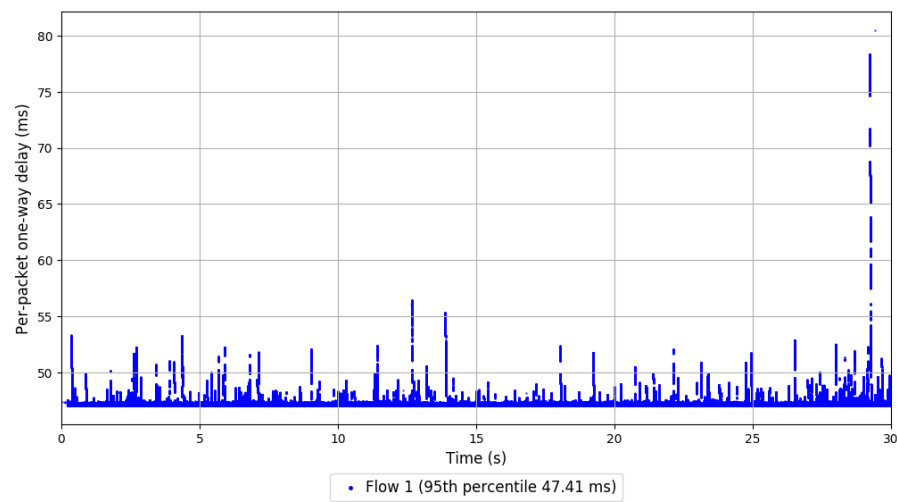
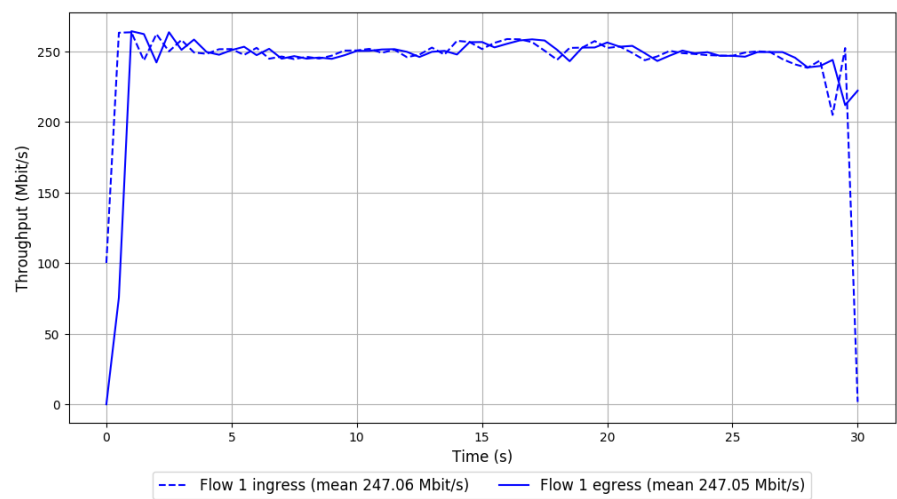
-- Flow 1:

Average throughput: 247.05 Mbit/s

95th percentile per-packet one-way delay: 47.409 ms

Loss rate: 0.33%

Run 2: Report of TaoVA-100x — Data Link

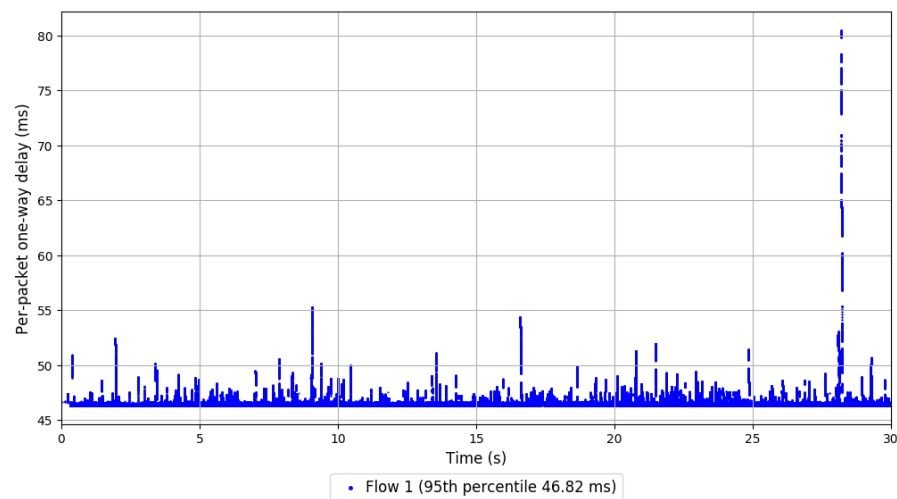
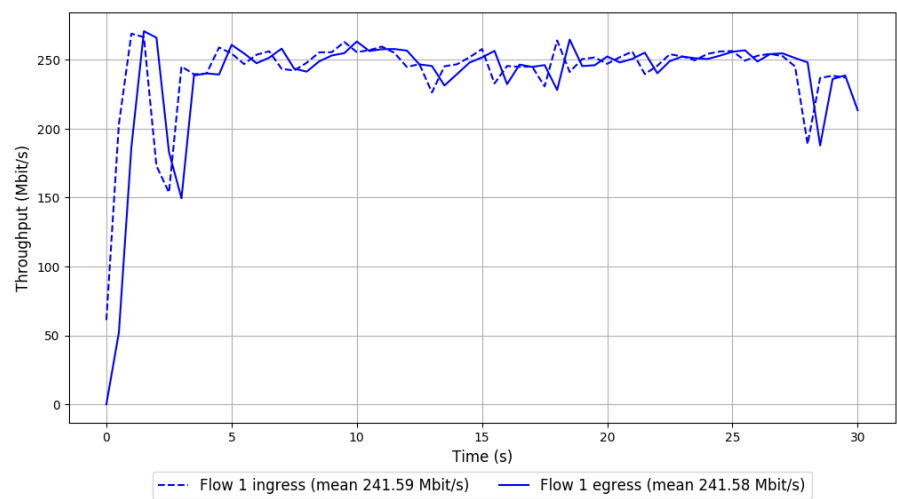


Run 3: Statistics of TaoVA-100x

Start at: 2019-10-03 18:31:19  
End at: 2019-10-03 18:31:49  
Local clock offset: -0.03 ms  
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2019-10-03 22:27:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 241.58 Mbit/s  
95th percentile per-packet one-way delay: 46.823 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 241.58 Mbit/s  
95th percentile per-packet one-way delay: 46.823 ms  
Loss rate: 0.32%

Run 3: Report of TaoVA-100x — Data Link



Run 4: Statistics of TaoVA-100x

Start at: 2019-10-03 19:06:09

End at: 2019-10-03 19:06:39

Local clock offset: 0.34 ms

Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2019-10-03 22:28:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 249.46 Mbit/s

95th percentile per-packet one-way delay: 47.882 ms

Loss rate: 0.33%

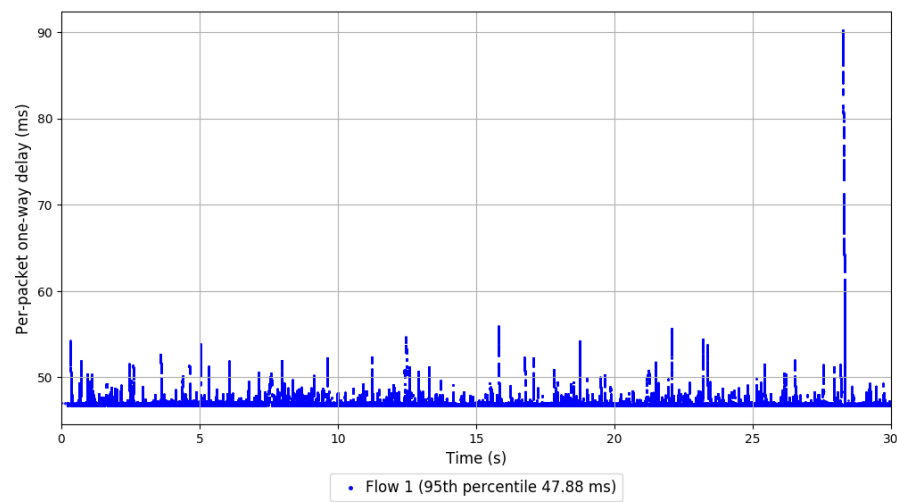
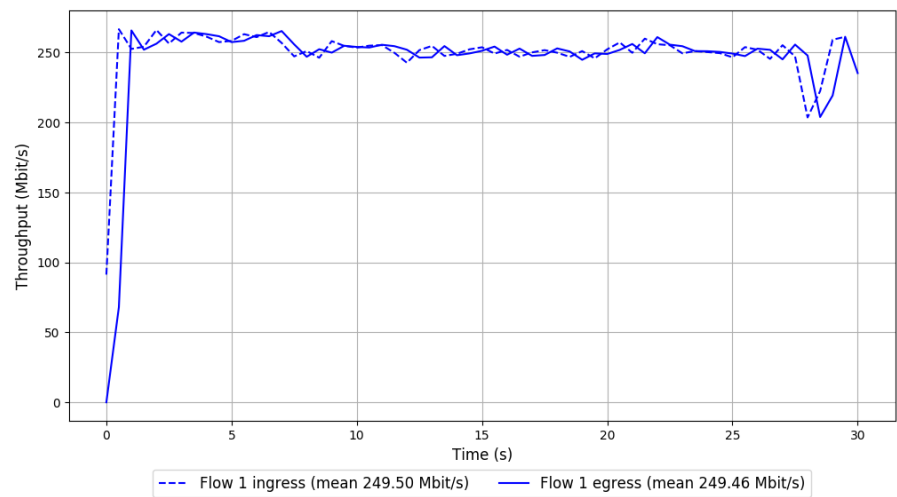
-- Flow 1:

Average throughput: 249.46 Mbit/s

95th percentile per-packet one-way delay: 47.882 ms

Loss rate: 0.33%

Run 4: Report of TaoVA-100x — Data Link

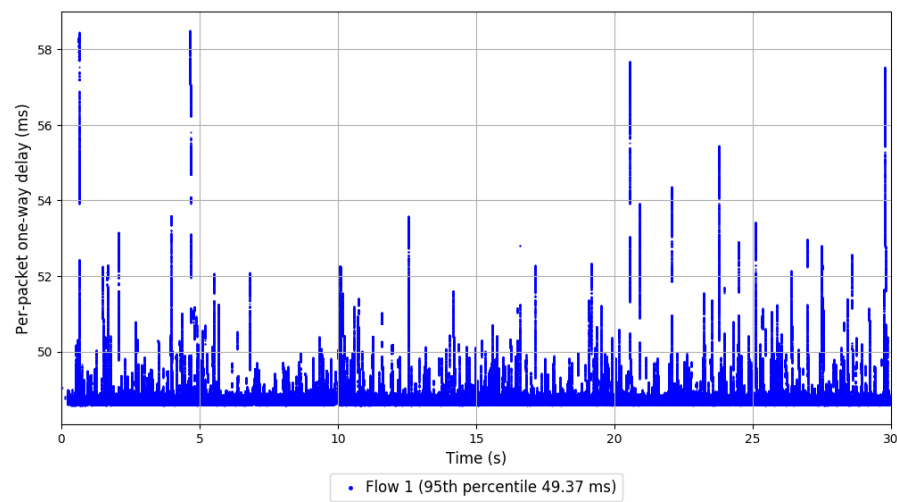
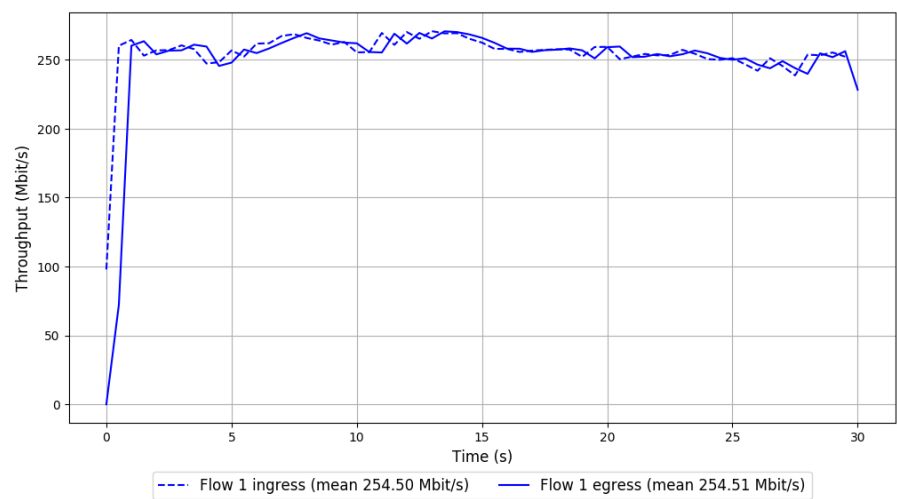


Run 5: Statistics of TaoVA-100x

Start at: 2019-10-03 19:41:08  
End at: 2019-10-03 19:41:38  
Local clock offset: -0.043 ms  
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2019-10-03 22:29:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 254.51 Mbit/s  
95th percentile per-packet one-way delay: 49.369 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 254.51 Mbit/s  
95th percentile per-packet one-way delay: 49.369 ms  
Loss rate: 0.32%

Run 5: Report of TaoVA-100x — Data Link



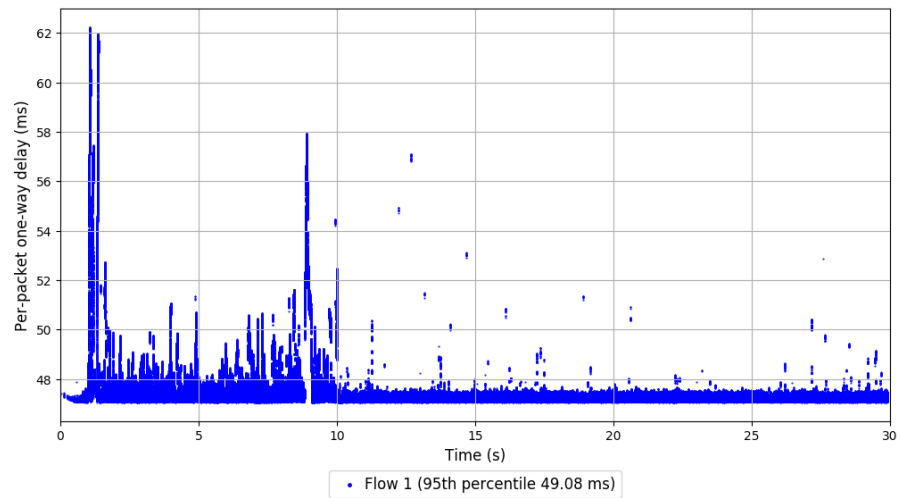
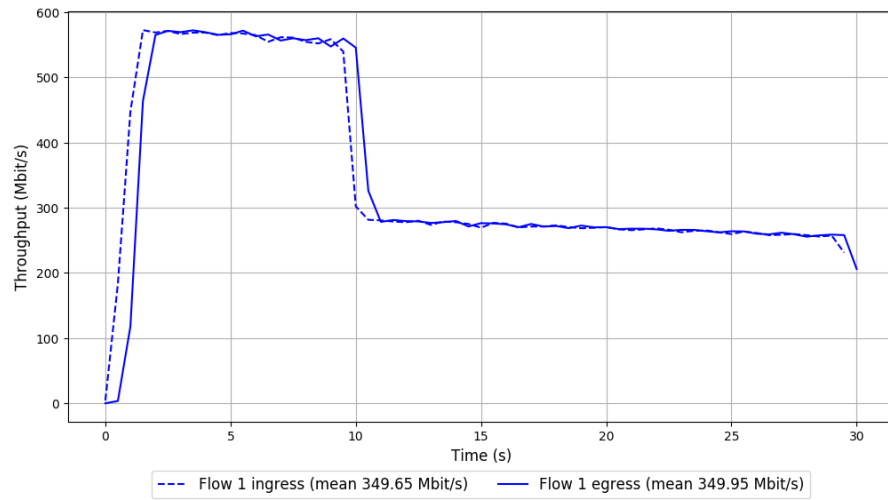


Run 1: Statistics of TCP Vegas

Start at: 2019-10-03 17:27:45  
End at: 2019-10-03 17:28:15  
Local clock offset: -0.026 ms  
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2019-10-03 22:29:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 349.95 Mbit/s  
95th percentile per-packet one-way delay: 49.079 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 349.95 Mbit/s  
95th percentile per-packet one-way delay: 49.079 ms  
Loss rate: 0.23%

### Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-10-03 18:02:28

End at: 2019-10-03 18:02:58

Local clock offset: 0.03 ms

Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2019-10-03 22:29:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 285.33 Mbit/s

95th percentile per-packet one-way delay: 47.650 ms

Loss rate: 0.30%

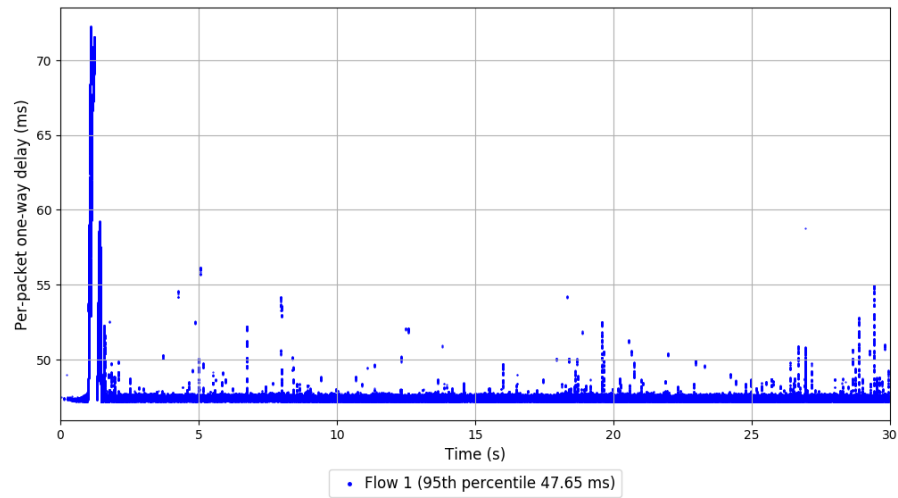
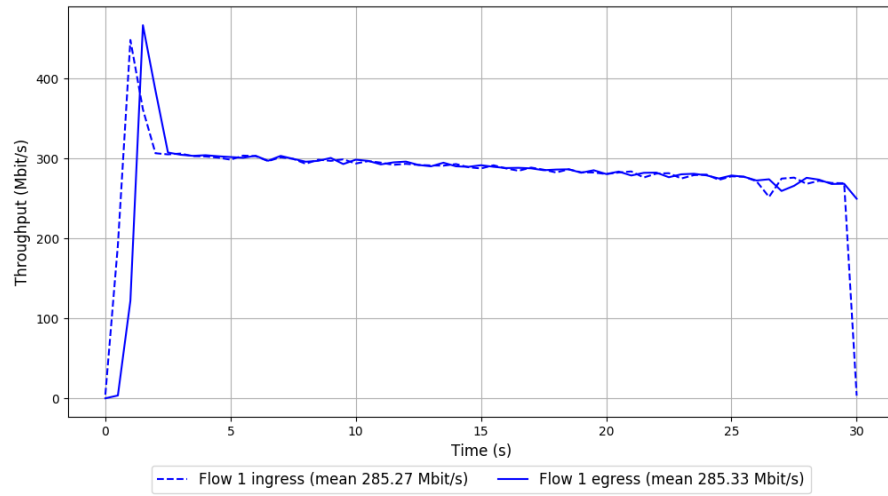
-- Flow 1:

Average throughput: 285.33 Mbit/s

95th percentile per-packet one-way delay: 47.650 ms

Loss rate: 0.30%

## Run 2: Report of TCP Vegas — Data Link

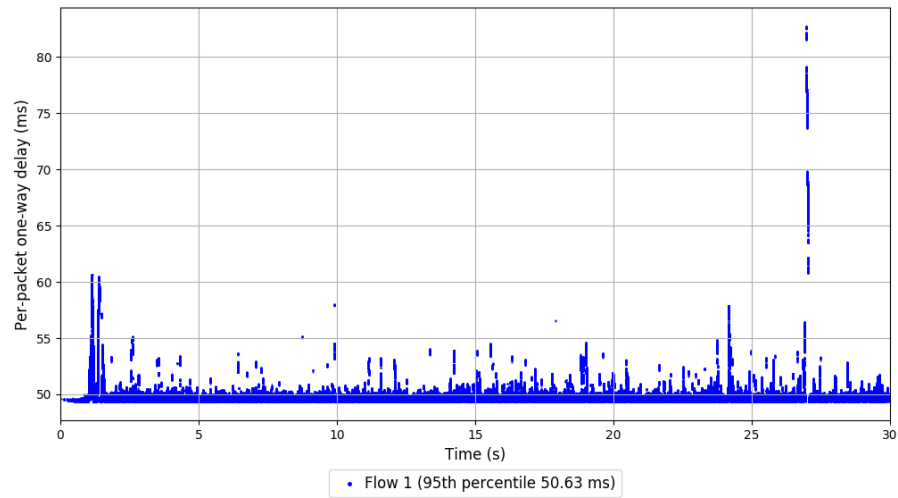
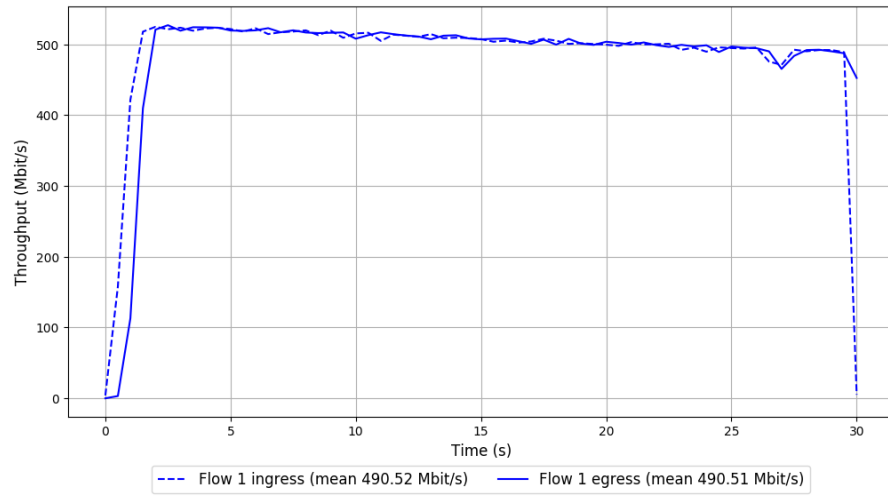


Run 3: Statistics of TCP Vegas

Start at: 2019-10-03 18:37:13  
End at: 2019-10-03 18:37:43  
Local clock offset: -0.009 ms  
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-10-03 22:32:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 490.51 Mbit/s  
95th percentile per-packet one-way delay: 50.630 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 490.51 Mbit/s  
95th percentile per-packet one-way delay: 50.630 ms  
Loss rate: 0.32%

### Run 3: Report of TCP Vegas — Data Link

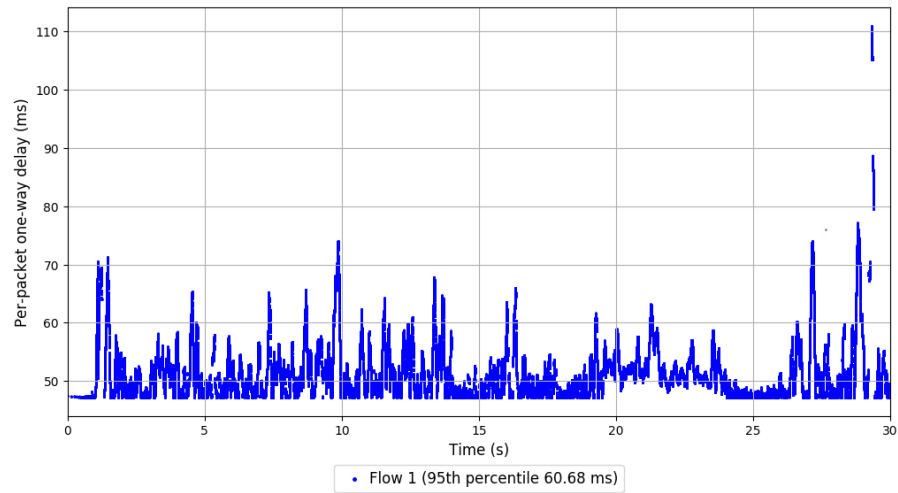
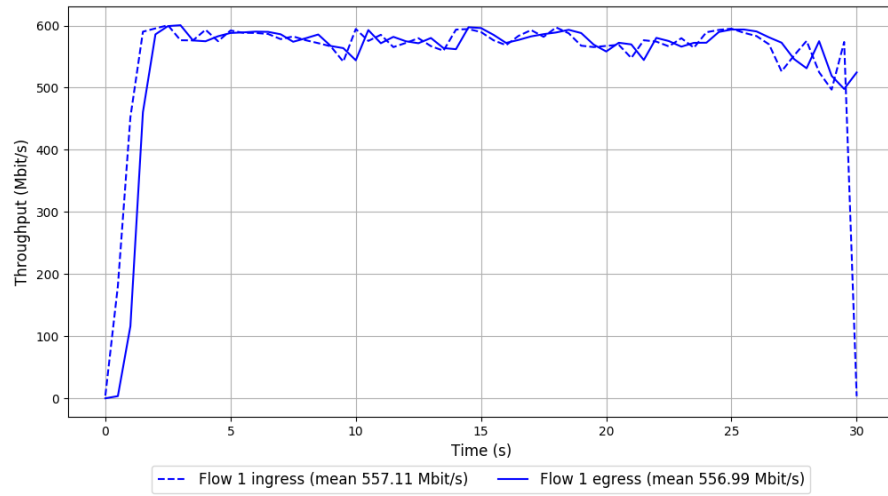


Run 4: Statistics of TCP Vegas

Start at: 2019-10-03 19:12:11  
End at: 2019-10-03 19:12:41  
Local clock offset: -0.016 ms  
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2019-10-03 22:37:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 556.99 Mbit/s  
95th percentile per-packet one-way delay: 60.681 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 556.99 Mbit/s  
95th percentile per-packet one-way delay: 60.681 ms  
Loss rate: 0.34%

#### Run 4: Report of TCP Vegas — Data Link



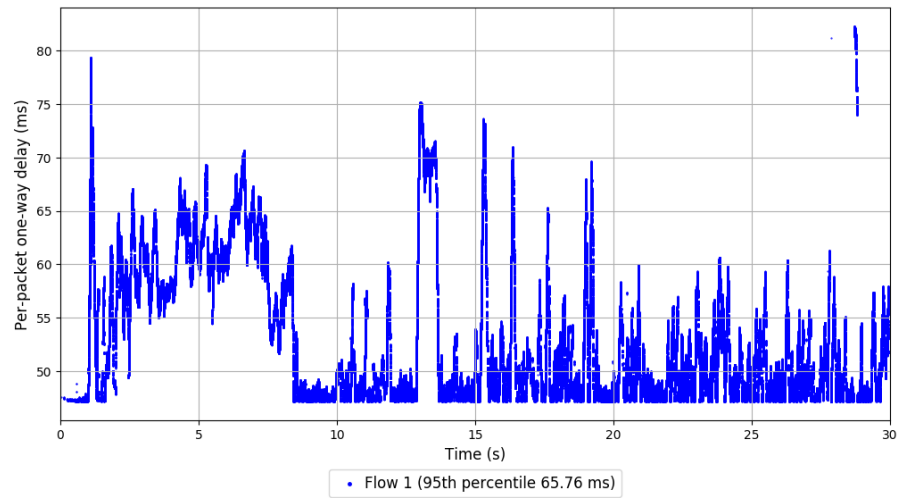
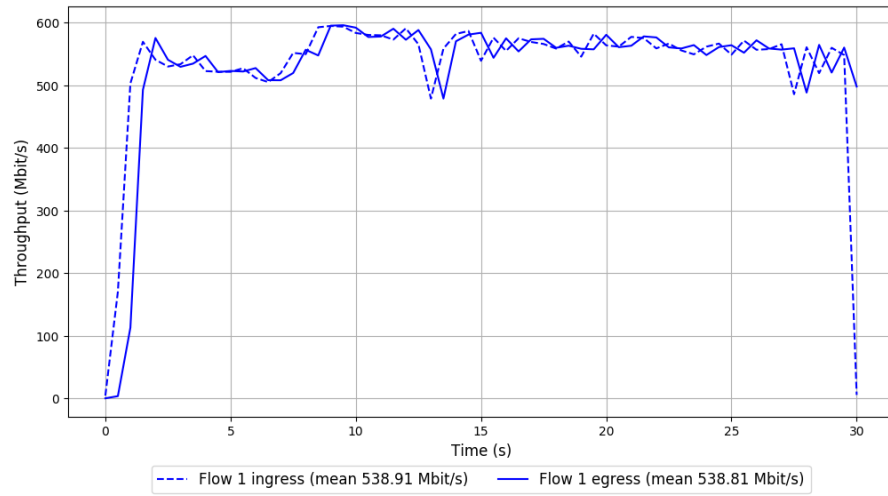


Run 5: Statistics of TCP Vegas

Start at: 2019-10-03 19:47:14  
End at: 2019-10-03 19:47:44  
Local clock offset: -0.055 ms  
Remote clock offset: -0.162 ms

# Below is generated by plot.py at 2019-10-03 22:37:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 538.81 Mbit/s  
95th percentile per-packet one-way delay: 65.761 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 538.81 Mbit/s  
95th percentile per-packet one-way delay: 65.761 ms  
Loss rate: 0.33%

### Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-10-03 17:49:29

End at: 2019-10-03 17:49:59

Local clock offset: 0.001 ms

Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2019-10-03 22:37:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 134.02 Mbit/s

95th percentile per-packet one-way delay: 122.990 ms

Loss rate: 0.74%

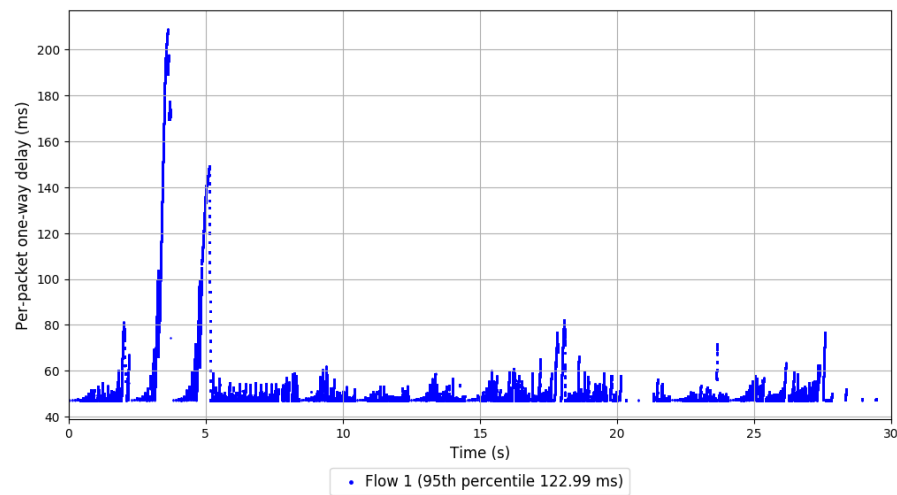
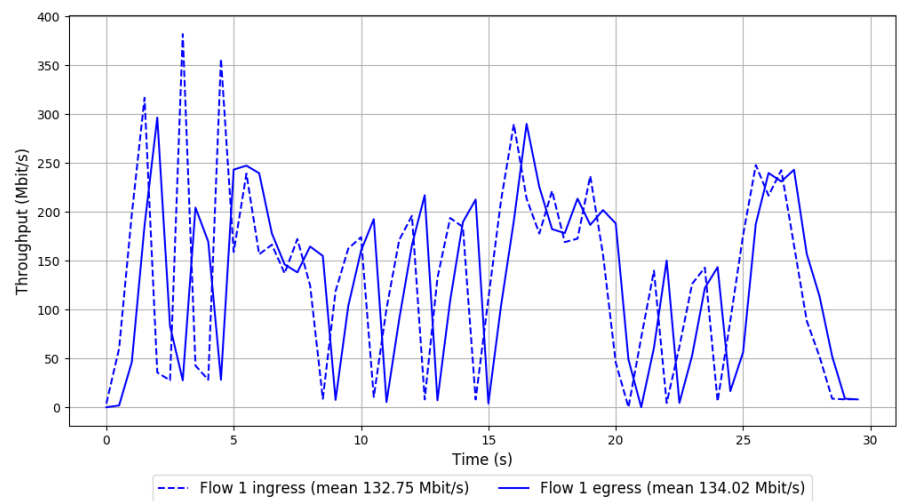
-- Flow 1:

Average throughput: 134.02 Mbit/s

95th percentile per-packet one-way delay: 122.990 ms

Loss rate: 0.74%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-10-03 18:24:29

End at: 2019-10-03 18:24:59

Local clock offset: -0.037 ms

Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2019-10-03 22:37:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.60 Mbit/s

95th percentile per-packet one-way delay: 108.439 ms

Loss rate: 0.00%

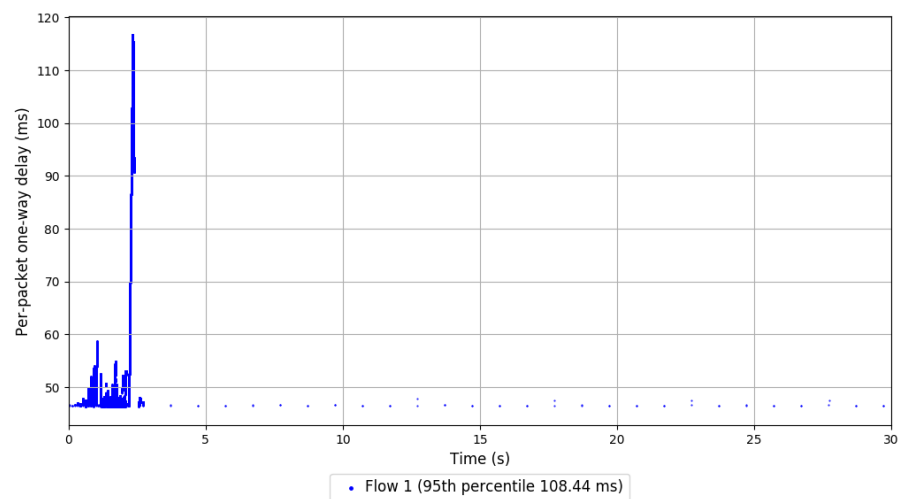
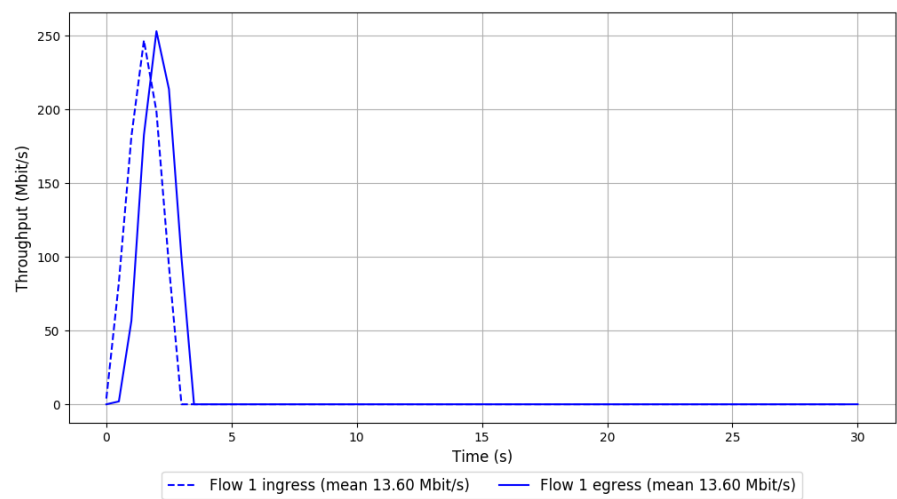
-- Flow 1:

Average throughput: 13.60 Mbit/s

95th percentile per-packet one-way delay: 108.439 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link

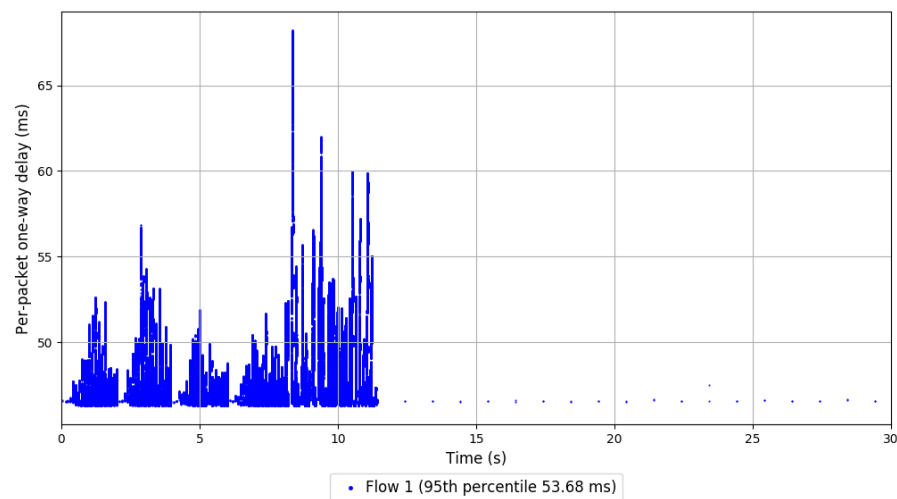
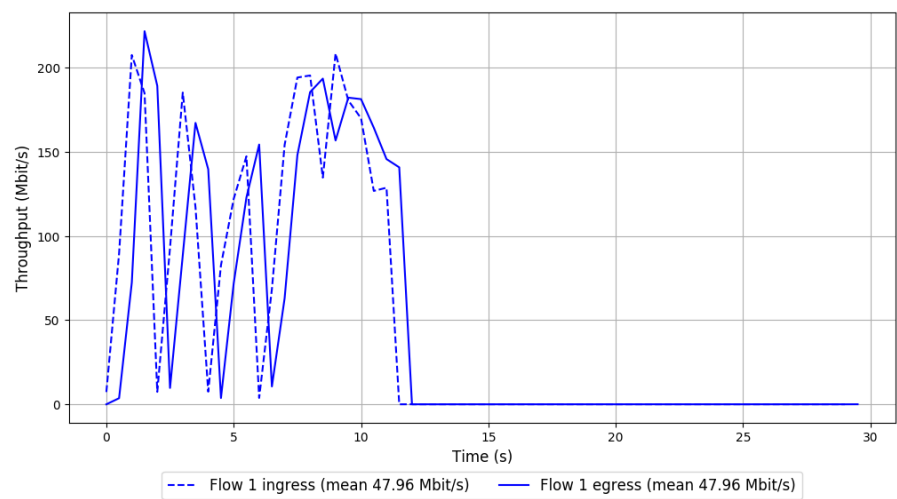


Run 3: Statistics of Verus

Start at: 2019-10-03 18:59:14  
End at: 2019-10-03 18:59:44  
Local clock offset: -0.03 ms  
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2019-10-03 22:37:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 47.96 Mbit/s  
95th percentile per-packet one-way delay: 53.678 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 47.96 Mbit/s  
95th percentile per-packet one-way delay: 53.678 ms  
Loss rate: 0.00%

Run 3: Report of Verus — Data Link



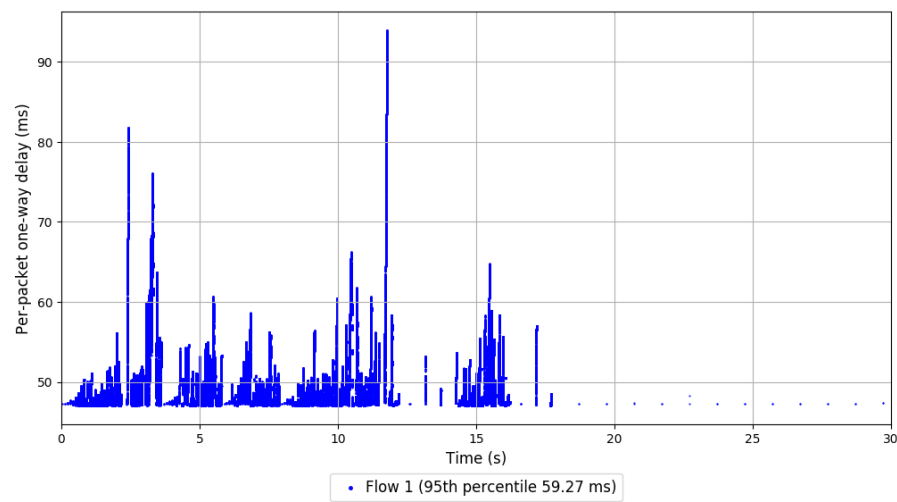
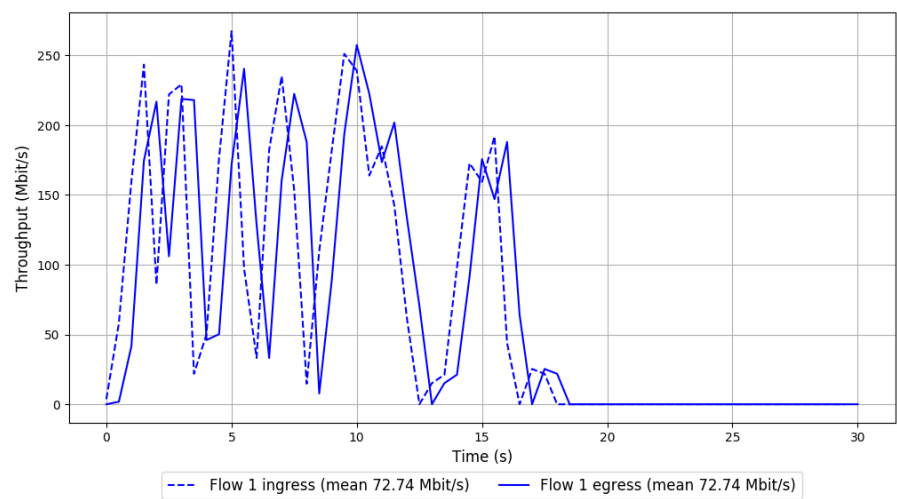


Run 4: Statistics of Verus

Start at: 2019-10-03 19:34:13  
End at: 2019-10-03 19:34:43  
Local clock offset: -0.002 ms  
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2019-10-03 22:37:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 72.74 Mbit/s  
95th percentile per-packet one-way delay: 59.270 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 72.74 Mbit/s  
95th percentile per-packet one-way delay: 59.270 ms  
Loss rate: 0.00%

Run 4: Report of Verus — Data Link

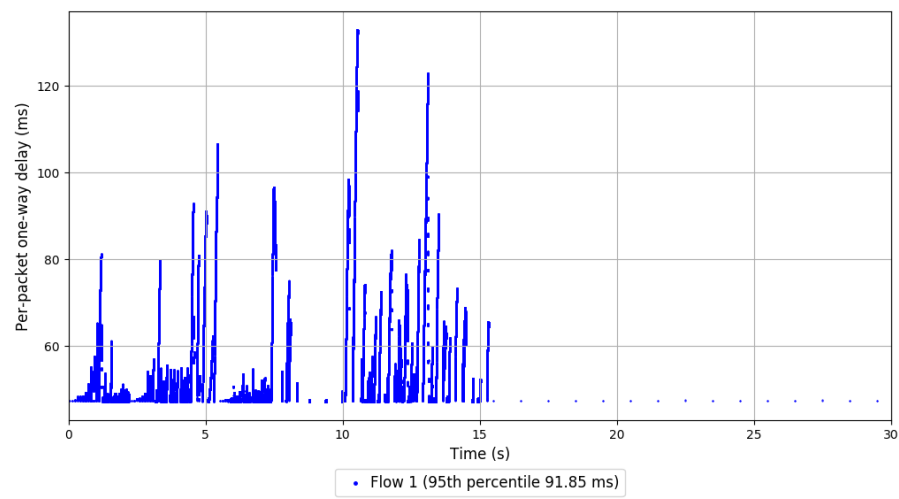
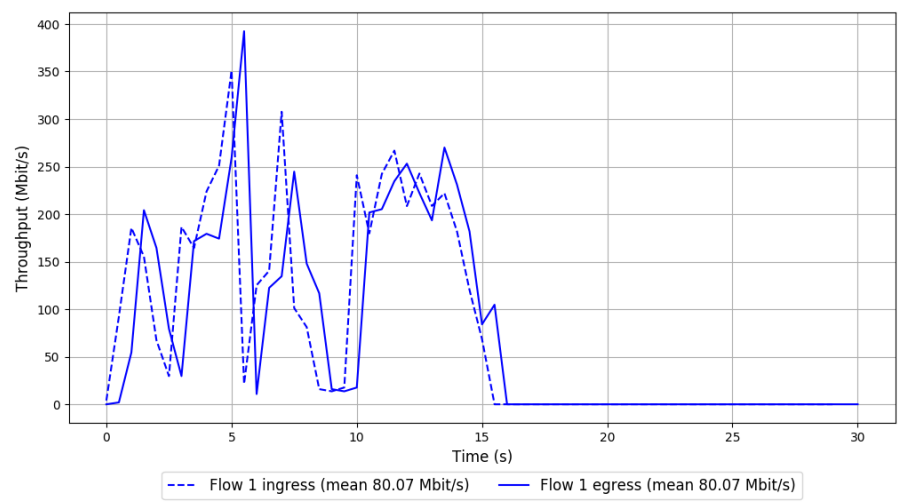


Run 5: Statistics of Verus

Start at: 2019-10-03 20:09:20  
End at: 2019-10-03 20:09:50  
Local clock offset: -0.076 ms  
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2019-10-03 22:37:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.07 Mbit/s  
95th percentile per-packet one-way delay: 91.847 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 80.07 Mbit/s  
95th percentile per-packet one-way delay: 91.847 ms  
Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-10-03 17:43:46

End at: 2019-10-03 17:44:16

Local clock offset: 0.022 ms

Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2019-10-03 22:37:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 355.69 Mbit/s

95th percentile per-packet one-way delay: 50.176 ms

Loss rate: 0.38%

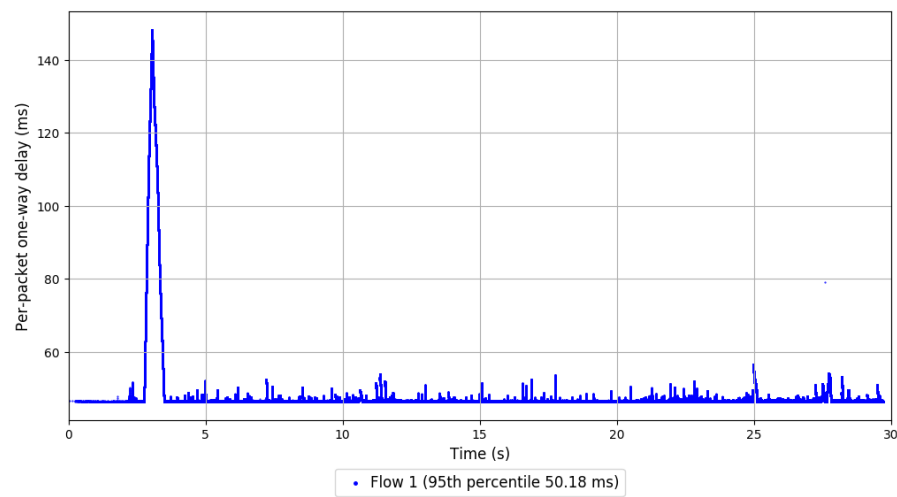
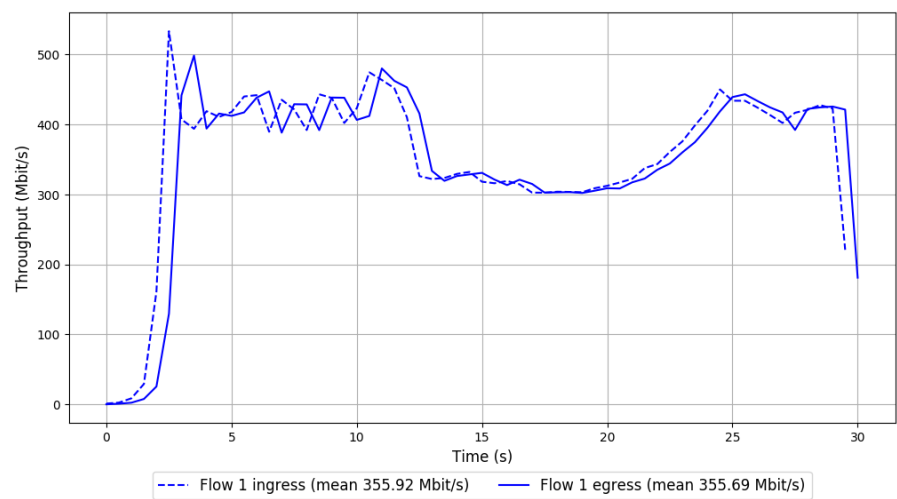
-- Flow 1:

Average throughput: 355.69 Mbit/s

95th percentile per-packet one-way delay: 50.176 ms

Loss rate: 0.38%

Run 1: Report of PCC-Vivace — Data Link

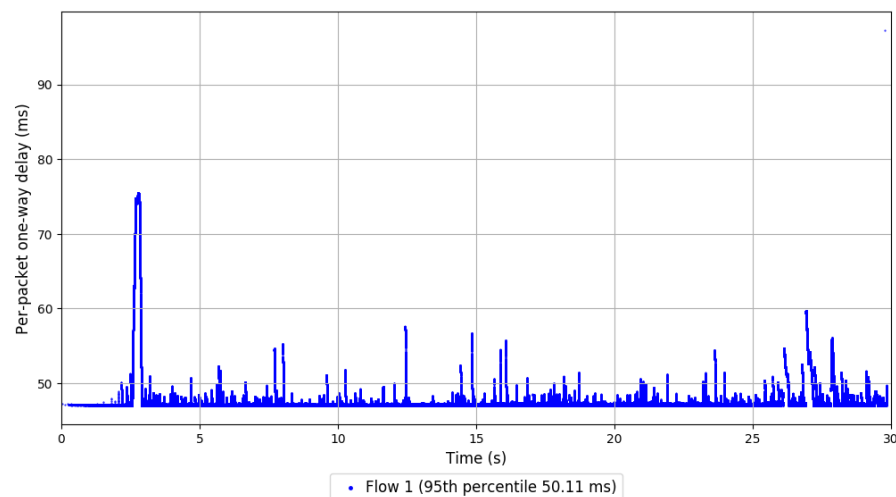
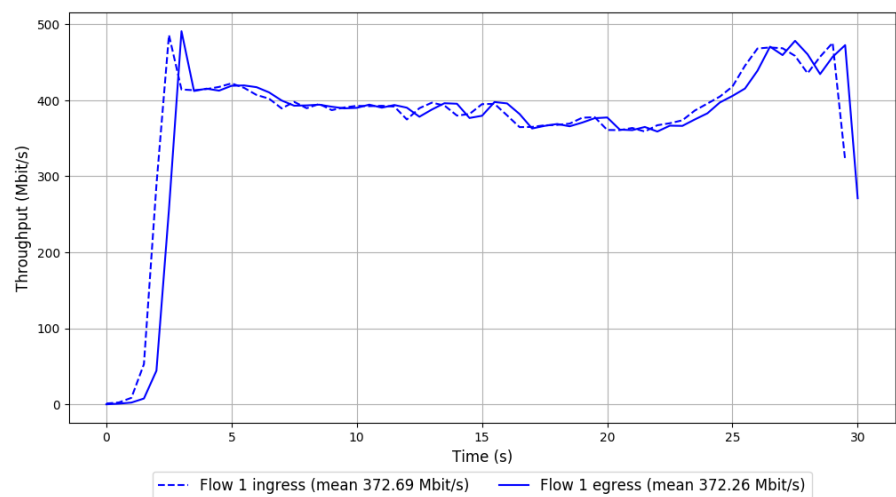


Run 2: Statistics of PCC-Vivace

Start at: 2019-10-03 18:18:45  
End at: 2019-10-03 18:19:15  
Local clock offset: -0.055 ms  
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-10-03 22:37:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 372.26 Mbit/s  
95th percentile per-packet one-way delay: 50.113 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 372.26 Mbit/s  
95th percentile per-packet one-way delay: 50.113 ms  
Loss rate: 0.43%

Run 2: Report of PCC-Vivace — Data Link



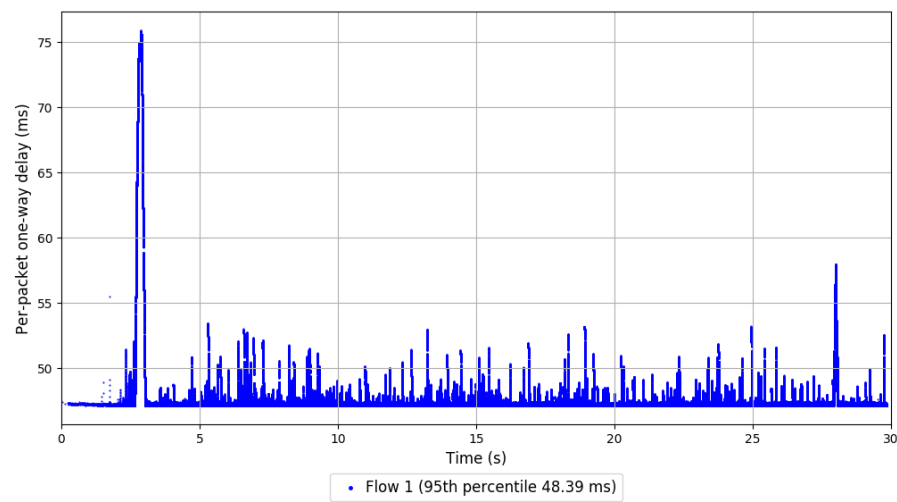
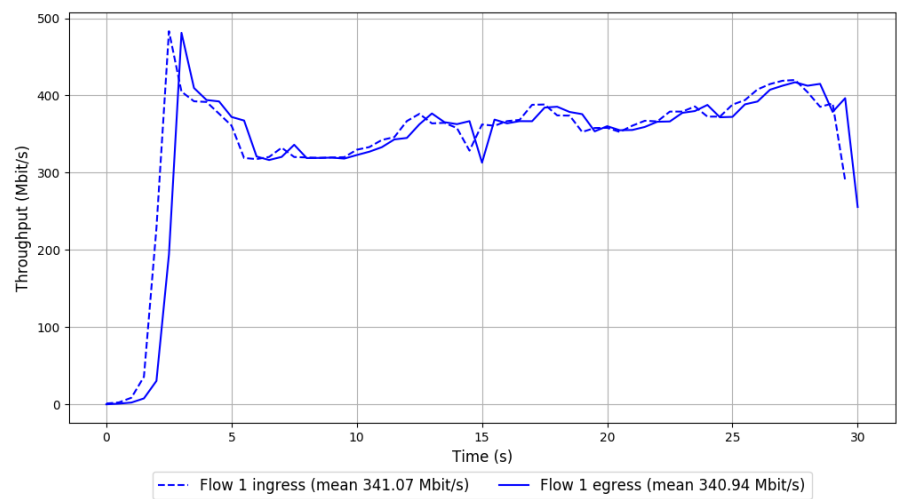


Run 3: Statistics of PCC-Vivace

Start at: 2019-10-03 18:53:27  
End at: 2019-10-03 18:53:57  
Local clock offset: -0.026 ms  
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2019-10-03 22:37:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 340.94 Mbit/s  
95th percentile per-packet one-way delay: 48.392 ms  
Loss rate: 0.35%  
-- Flow 1:  
Average throughput: 340.94 Mbit/s  
95th percentile per-packet one-way delay: 48.392 ms  
Loss rate: 0.35%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-10-03 19:28:26

End at: 2019-10-03 19:28:56

Local clock offset: 0.02 ms

Remote clock offset: -0.166 ms

# Below is generated by plot.py at 2019-10-03 22:37:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 303.40 Mbit/s

95th percentile per-packet one-way delay: 49.890 ms

Loss rate: 0.41%

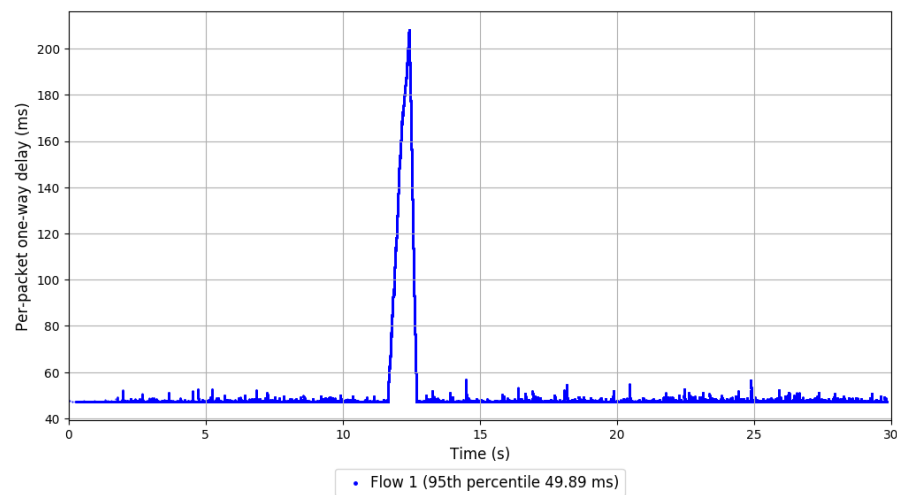
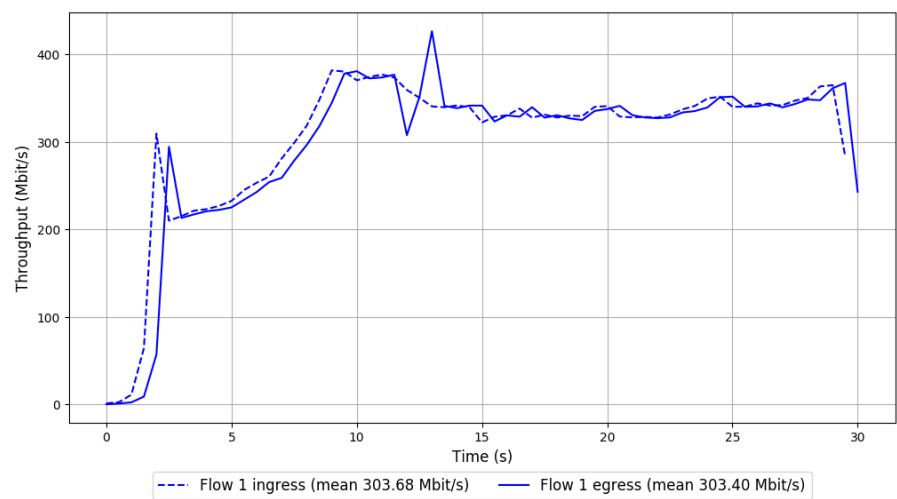
-- Flow 1:

Average throughput: 303.40 Mbit/s

95th percentile per-packet one-way delay: 49.890 ms

Loss rate: 0.41%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-10-03 20:03:30

End at: 2019-10-03 20:04:00

Local clock offset: -0.045 ms

Remote clock offset: -0.17 ms

# Below is generated by plot.py at 2019-10-03 22:37:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 341.40 Mbit/s

95th percentile per-packet one-way delay: 49.113 ms

Loss rate: 0.32%

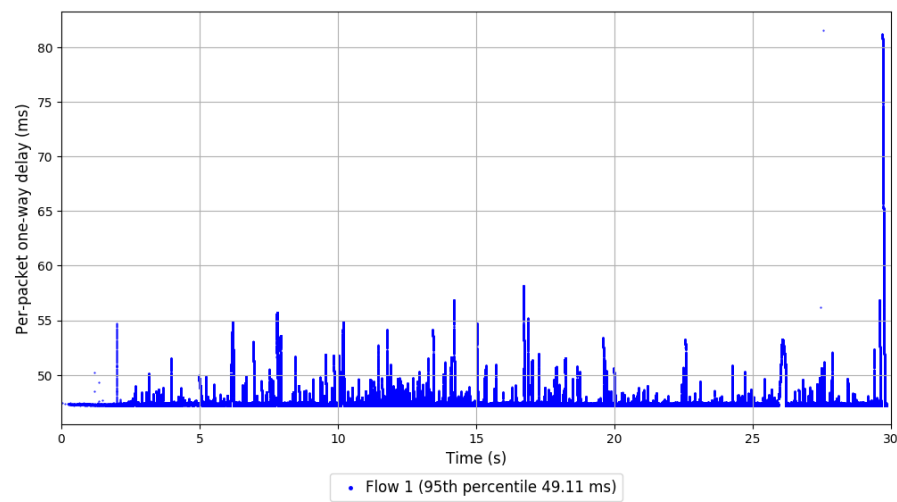
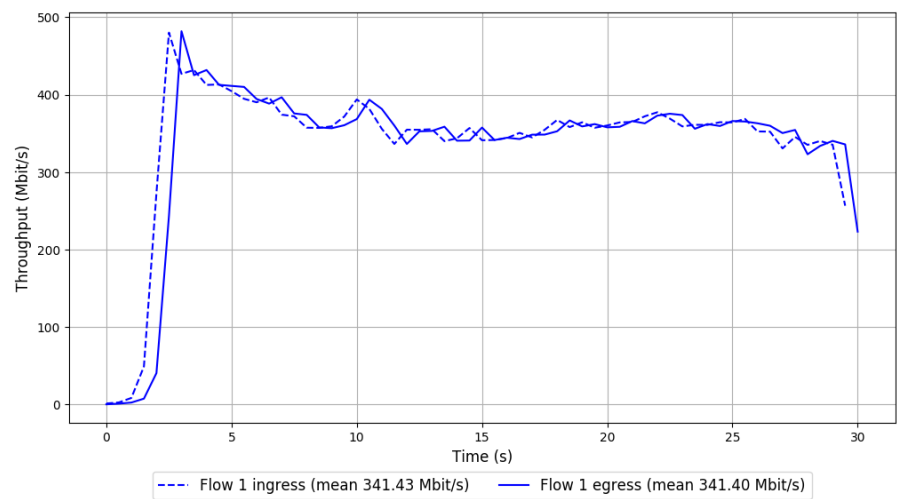
-- Flow 1:

Average throughput: 341.40 Mbit/s

95th percentile per-packet one-way delay: 49.113 ms

Loss rate: 0.32%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

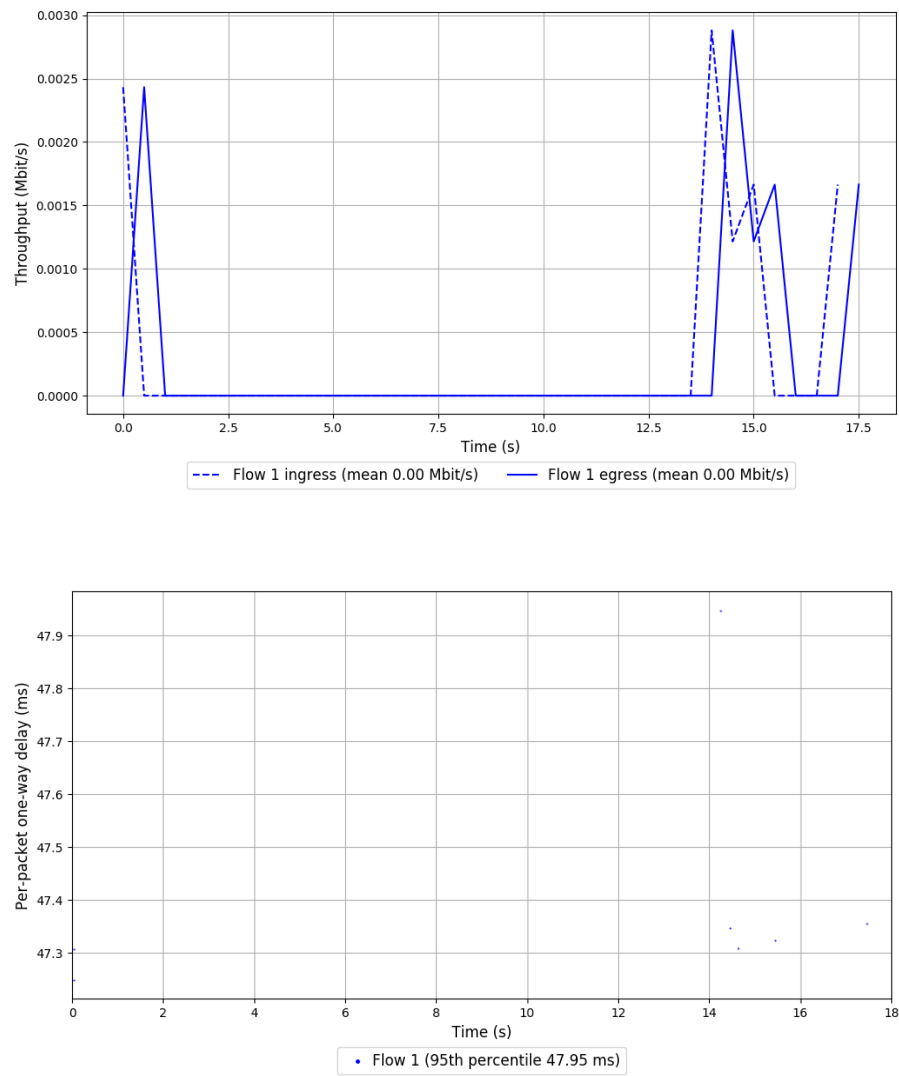
Start at: 2019-10-03 17:52:25

End at: 2019-10-03 17:52:55

Local clock offset: 0.046 ms

Remote clock offset: -0.004 ms

Run 1: Report of WebRTC media — Data Link



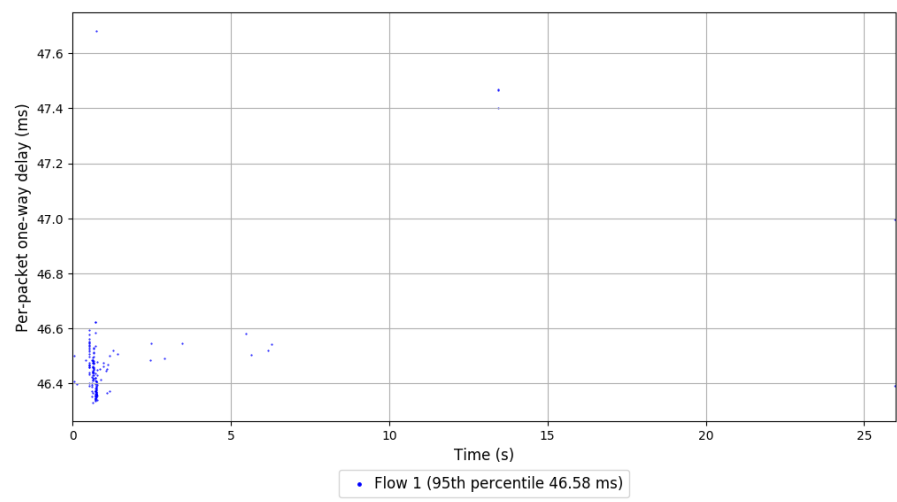
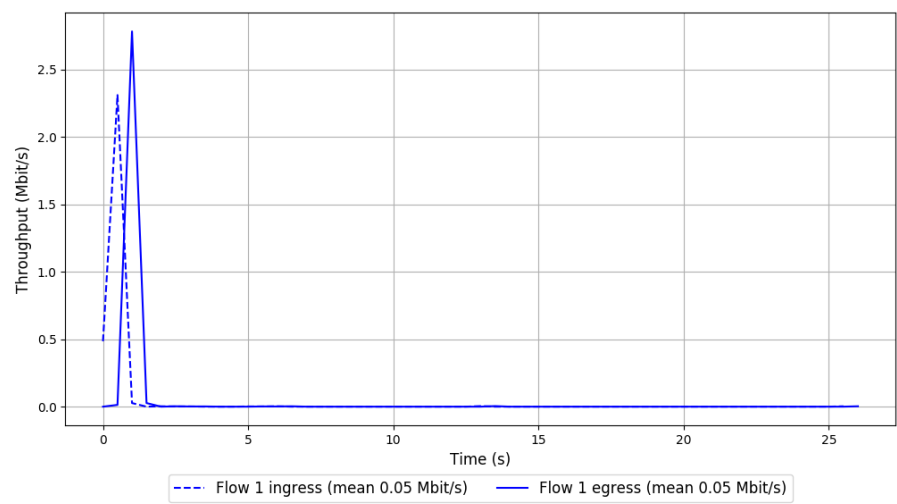


Run 2: Statistics of WebRTC media

Start at: 2019-10-03 18:27:14  
End at: 2019-10-03 18:27:44  
Local clock offset: -0.049 ms  
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2019-10-03 22:37:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 46.583 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 46.583 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

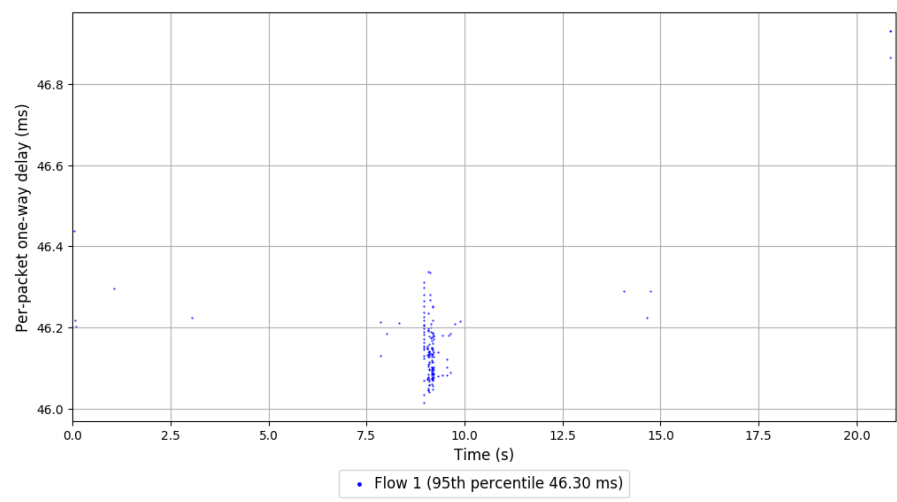
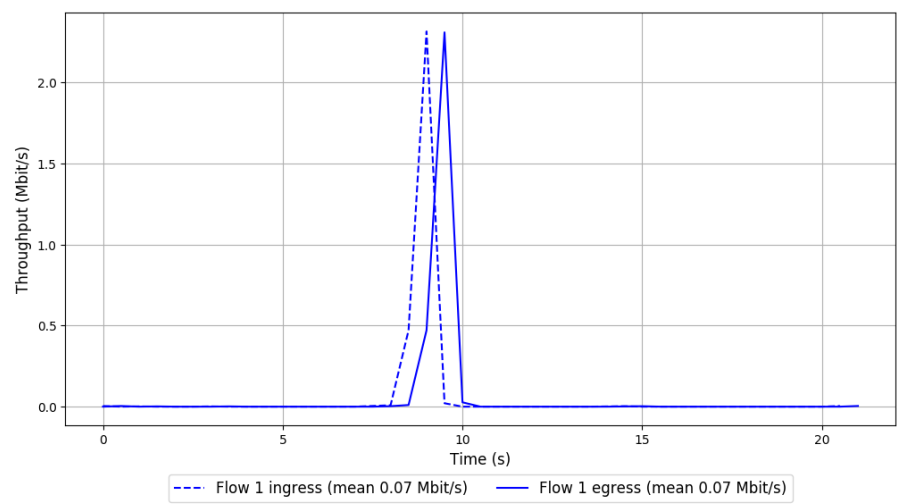
Start at: 2019-10-03 19:02:02

End at: 2019-10-03 19:02:32

Local clock offset: -0.385 ms

Remote clock offset: -0.102 ms

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

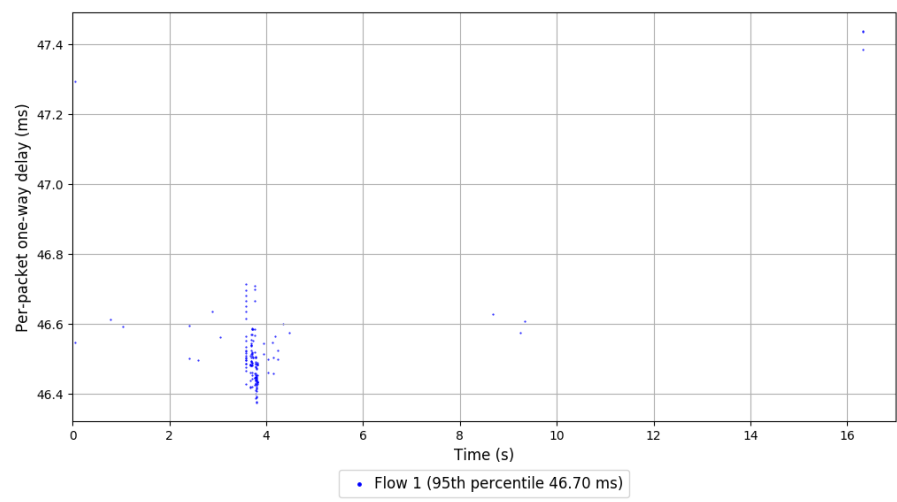
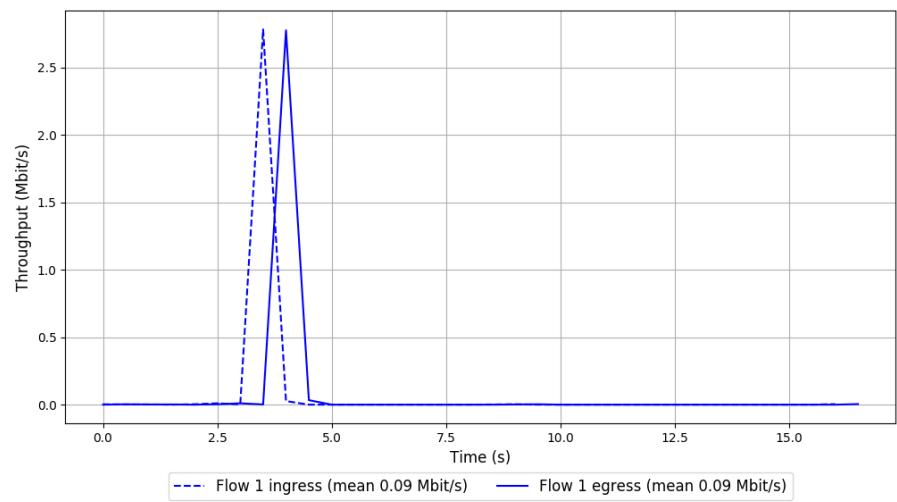
Start at: 2019-10-03 19:37:03

End at: 2019-10-03 19:37:33

Local clock offset: 0.02 ms

Remote clock offset: -0.111 ms

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-10-03 20:12:11  
End at: 2019-10-03 20:12:41  
Local clock offset: -0.066 ms  
Remote clock offset: -0.173 ms

# Below is generated by plot.py at 2019-10-03 22:37:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 47.554 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 47.554 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

